Weston Solutions, Inc.
43 N. Main Street
Concord, NH 03301

603-656-5400
WestonSolutions.com

5 November 2021

Nantucket Memorial Airport Commission
14 Airport Road
Nantucket, MA 02554

SUBJECT: Interim Data Submittal – November 2021
PFAS Study Update
Release Tracking Number 4-28219

Dear Commissioners,

Weston Solutions, Inc. (WESTON®) has prepared this interim data submittal to document the assessment and sampling activities performed on behalf of the Nantucket Memorial Airport (ACK). The site is located at 14 Airport Road in Nantucket, Massachusetts (Figures 1 and 2). The reporting period covered by this data submittal is 1 July 2021 through 31 October 2021. The next Immediate Response Action (IRA) Status Report will be submitted to the Massachusetts Department of Environmental Protection (MassDEP) on or before 28 February 2022 and will cover the period of 1 July 2021 through 31 December 2021.

PROJECT STATUS UPDATE

The following activities were completed during the reporting period:

- Receipt of analytical results from the June, July, and August 2021 drinking water sampling events.
- Submittal of residential drinking water results letters for the June, July, and August 2021 drinking water sampling events.
- Performance monitoring of the modular fuel farm granular activated carbon system.
- Receipt of analytical results from the irrigation wells on ACK-owned properties.
- Submittal of the *10th IRA Status Report*[1].
- Horizontal delineation of shallow soils at the Sand Pit AFFF application area.
- Subsurface utility location in preparation of upcoming groundwater delineation activities.

[1] WESTON, 2021. *Immediate Response Action Status Report No. 10. Nantucket Memorial Airport, 14 Airport Road, Nantucket, Massachusetts. RTN 4-28219. August 31.*

As of September 2021, the routine drinking water sampling frequency for residences with point-of-entry treatment (POET) systems has been changed from monthly to quarterly in accordance with the *IRA Plan*[2], as amended. This reduction was made following review of 15 months of POET system performance monitoring data showing successful treatment of drinking water with no breakthrough of the primary treatment vessel. All POET systems include a primary and secondary vessel, with the secondar vessel serving as a backup to the primary should breakthrough occur. Notification of this change was made to MassDEP in the *10th IRA Status Report* submitted on 31 August 2021 followed by notification on 1 October 2021 to the property owners via electronic mail.

Portions of the project site are located within a Non-Potential Drinking Water Source Area, often referred to as a Potentially Productive Aquifer (PPA) exclusion area. Notification of the intent to expand the PPA exclusion area to include the remaining areas within the airport security fencing and the industrial area to the east was made to MassDEP in the *10th IRA Status Report*. The applicable soil criteria that apply to the portions of the site within the PAA exclusion area boundaries are GW-3/S-1, rather than GW-1/S-1.

PER- AND POLYFLUOROALKYL SUBSTANCES ANALYTICAL RESULTS

Data received during the reporting period include analytical results for drinking water, shallow soil delineation from the Sand Pit, performance monitoring of the modular fuel farm treatment system, and irrigation wells on ACK-owned property. The drinking water results are presented in Tables 1 and 2, the analytical data for the sand pit investigation are presented in Table 3, and the results from the fuel farm treatment system and irrigation wells are presented in Table 4. Drinking water sampling locations are shown on Figure 2 and Sand Pit sampling locations are shown on Figure 3. The laboratory analytical data packages are provided in Attachment 1.

Madequecham Valley Road Sampling

During the reporting period, per- and polyfluoroalkyl substances (PFAS) results were received for Properties AW, BI, DX, GJ, HL, JQ, MP, SK, and WG. Where detected concentrations of PFAS6[3] range from 1.7 parts per trillion (ppt) to 19.1 ppt. The residence at 19.1 ppt is slated for municipal water hookup rather than a POET system. Results for drinking water supplies treated with POET systems were received for Properties CC, EV, FM, KH, NU, QO, RN, TD, UE, VT, and XA. PFAS were not detected in any of the mid- or effluent samples collected from the POET systems at the 11 properties, indicating that all systems continue to operate as intended.

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[2] WESTON, 2020. *Immediate Response Action Plan. Nantucket Memorial Airport, 14 Airport Road, Nantucket, Massachusetts. RTN 4-28219*. April 29.

[3] The six compounds regulated by MassDEP under the Massachusetts Contingency Plan include perfluoroheptanoic acid, perfluorohexanesulfonic acid, perfluorooctane sulfonic acid, perfluorooctanoic acid, perfluorononanoic acid, and perfluorodecanoic acid and are referred to collectively as the "PFAS6."

West Side Sampling

PFAS results were received for west side Properties HF, JI, and MQ. Except as noted below, PFAS were not detected in any of the mid- or effluent samples collected from the POET systems at Properties HF, JI, and MQ, indicating these POET systems are operating properly. During the July 2021 monitoring period, the POET system at Property HFA had detections in the mid-sample. Because the results were nearly identical to the influent sample results, it was suspected that the primary vessel was being bypassed. Upon inspection of the POET system, it was confirmed that the primary vessel was bypassed, and the vessel was put back online. The vessel was bypassed by the resident believing that it was causing low pressure. However, pressure tests confirmed no negative impact to water pressure from the POET system. The results of the subsequent sampling event showed that there was no breakthrough of the primary vessel. No risk to the residents occurred during the period that the primary vessel was bypassed because the secondary vessel served as designed and continued to remove PFAS.

Modular Fuel Farm Treatment System Performance Monitoring

Performance monitoring of the Fuel Farm treatment system was completed 22 July 2021. While the influent PFAS6 concentration was 1037.1 ppt, no PFAS6 were detected in the mid- and effluent samples indicating that the treatment system continues to operate as designed.

Irrigation Well Sampling

Three irrigation wells are present on ACK-owned property including one in the airport parking lot that is used to irrigate the vegetation around the lot; one in Statue Park; and one at the Delta Fields. PFAS6 were not detected in the irrigation wells serving Statue Park and the Delta Fields. PFAS6 were detected at 65.1 ppt in the parking lot irrigation well, which is consistent with concentrations detected in groundwater near this location.

SAND PIT INVESTIGATION

The Sand Pit is being used as a temporary stockpile location for excess soils generated during various improvement projects across ACK. Prior to placement of soils, horizontal delineation of PFAS impacts was completed. Shallow soil samples were collected from the 1 to 2 feet (ft) below ground surface (bgs) and 3 to 4 ft bgs intervals. PFAS were detected in all but two locations, but at concentrations below GW-3/S-1 criteria. The highest PFAS6 concentrations were detected from the sample (SP-18) located in the approximate middle of the sand pit at 42.95 nanograms per gram. In general, higher concentrations were observed in samples collected from the western portion of the Sand Pit.

POINT-OF-ENTRY TREATMENT SYSTEM INSTALLATIONS

No POET systems were installed during this reporting period.

DRINKING WATER SAMPLING

The next drinking water sampling event is scheduled for November 2021.

We appreciate this opportunity to be of service to you. If you have any questions regarding the information presented in this submittal, please do not hesitate to contact me at (603) 656-5457.

Very truly yours,

WESTON SOLUTIONS, INC.

Lisa Kammer

Lisa L. Kammer, P.G.
Principal Project Geoscientist

LLK/mrk/jjs:kmc

Attachments

FIGURES

SCALE:

0 5,000 10,000 20,000

Feet

TITLE:

NANTUCKET MEMORIAL AIRPORT
SITE LOCATION MAP

PROJECT:
NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

CLIENT NAME:
NANTUCKET MEMORIAL AIRPORT

WESTON SOLUTIONS

DATE:
11/5/2020

FIGURE #:
1

LEGEND

- SAMPLED
- GROUNDWATER GRAB SAMPLE LOCATION
- AWAITING ACCESS
- MONITORING WELL
- PROPERTY SUPPLIED BY TOWN WATER
- KNOWN AFFF APPLICATION AREAS
- GATE
- ESTIMATED DISPOSAL SITE BOUNDARY
- SITE FENCE
- TAXIWAY
- RWY 06 RUNWAY
- PROPERTY BOUNDARY

GRAPHIC SCALE

900 450 0 450 900

APPROXIMATE SCALE IN FEET

SOURCE:
NEARMAP IMAGERY 2020

SITE PLAN WITH DISPOSAL SITE BOUNDARIES

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
DCH	JAN 2021			15295.002.001
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
LLK	JAN 2021	AS SHOWN		2

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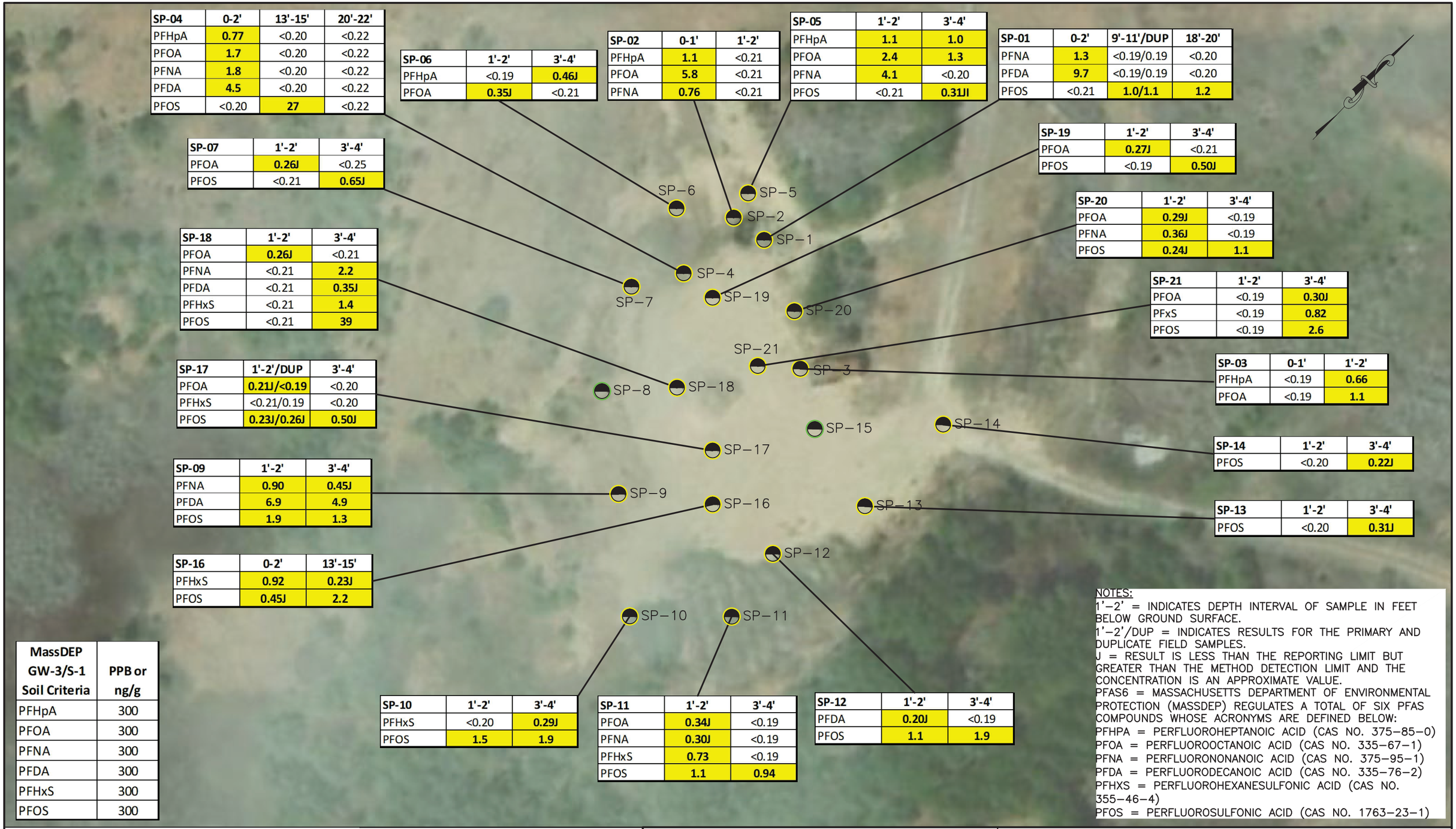

AFFF APPLICATION AREA
SAND PIT (SP)

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
DCH	JAN 2021			15295.002.001
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
LLK	JAN 2021	AS SHOWN		3

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C:\Users\Hernandd\OneDrive – Weston Solutions, Inc\DoveH\NANTUCKET\Nantucket-sites.dwg Oct 13,2021 – 10:26am HERNANDD

TABLES

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property AW (22 MVR)	No POET	410-8658-5	7/20/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.5**	**4.1**	1.8 U	1.8 U
		410-22055-2	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.3**	**4.1**	1.8 U	1.8 U
		410-41458-20	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.3**	**4.1**	1.7 U	1.7 U
		410-52854-15	8/24/2021	**3.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.7**	**6.3**	1.7 U	1.7 U
Property BI (36 MVR)	No POET	410-10038-4	8/4/2020	1.8 U	1.8 U	**5.6**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.7**	1.8 U	1.8 U	1.8 U
		410-22055-3	11/23/2020	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**4.7**	1.6 U	1.6 U	1.6 U
		410-30339-4	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		410-41458-23	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		410-52852-16	8/25/2021	**2.9**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**6.3**	1.6 U	1.6 U	1.6 U
Property CCA (18 MVR)	No POET	410-8658-6	7/20/2020	**54**	**13**	**25**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.8**	**170**	**270**	1.8 U	1.8 U
	Pre-POET	410-19528-12	10/29/2020	**68**	**19**	**37**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**4.4**	**240**	**310**	1.8 U	1.8 U
	Mid-POET	410-19528-10	10/29/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post-POET	410-19528-8	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre-POET	410-37354-12	4/22/2021	64 H	**25 H**	**32 H**	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	**3.4 H**	**250 E H**	**440 E H**	1.7 U H	1.7 U H
	Mid-POET	410-37354-11	4/22/2021	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H
	Post-POET	410-37354-10	4/22/2021	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H
	Pre-POET	410-41458-46	5/26/2021	**48**	**17**	**23**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.1**	**180**	**370**	1.7 U	1.7 U
	Mid-POET	410-41458-45	5/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-41458-44	5/26/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre-POET	410-45181-16	6/23/2021	**32** *-	**12**	**18**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**2.0**	**150**	**330**	1.6 U	1.6 U
	Mid-POET	410-45181-15	6/23/2021	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post-POET	410-45181-14	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-48581-6	7/21/2021	**37**	**13**	**18**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.2**	**150**	**310**	1.7 U	1.7 U
	Mid-POET	410-48581-5	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-48581-4	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-52852-13	8/25/2021	**44**	**15**	**21**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.4**	**120**	**260**	1.8 U	1.8 U
	Mid-POET	410-52852-12	8/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-52852-11	8/25/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U

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			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property CCB (18 MVR)[1]	Mid-POET	410-19528-16	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-19528-14	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre-POET	410-37354-15	4/22/2021	58 H	**22 H**	**29 H**	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	**3.2 H**	**230 E H**	**410 E H**	1.7 U H	1.7 U H
	Mid-POET	410-37354-14	4/22/2021	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H
	Post-POET	410-37354-13	4/22/2021	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H
	Pre-POET	410-41458-26	5/26/2021	**46**	**16**	**22**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.7**	**160**	**320**	1.7 U	1.7 U
	Mid-POET	410-41458-25	5/26/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-41458-24	5/26/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Mid-POET	410-45181-18	6/23/2021	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post-POET	410-45181-17	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-46523-3	7/8/2021	**34**	**12**	**17**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**110**	**230**	1.7 U	1.7 U
	Mid-POET	410-46523-2	7/8/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post-POET	410-46523-1	7/8/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Mid-POET	410-48581-8	7/21/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post-POET	410-48581-7	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Mid-POET	410-52852-15	8/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-52852-14	8/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Property DX (16 MVR)	No POET	PW1311844	5/6/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.8**	**6.2**	1.7 U	1.7 U
		410-10038-2	8/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**4.8**	**4.8**	1.9 U	1.9 U
		410-37354-8	4/22/2021	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	**5.1 H**	**5.5 H**	1.6 U H	1.6 U H
		410-41458-18	5/25/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**5.4**	**5.3**	1.6 U	1.6 U
		410-52854-16	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**8.6**	**5.4**	1.6 U	1.6 U

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property EV (26 MVR)	No POET	410-4374-3	6/11/2020	**47**	**6.2**	**2.7**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**3.1**	**12**	**7.6**	1.8 U	1.8 U
	No POET	410-12323-2	8/26/2020	**36**	**5.2**	**2.3**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**4.8**	**25**	**6.8**	1.8 U	1.8 U
	Pre-POET	410-19535-15	10/29/2020	**34**	**5.4**	**3.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.0**	**34**	**7.7**	1.7 U	1.7 U
	Mid-POET	410-19535-13	10/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-19535-11	10/29/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Pre-POET	410-22062-4	11/23/2020	**35**	**5.9**	**5.2**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**7.5**	**55**	**9.4**	1.8 U	1.8 U
	Mid-POET	410-22062-3	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-22062-2	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-27991-15	1/25/2021	**26**	**3.7**	**2.5**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**6.1**	**40**	**5.6**	1.8 U	1.8 U
	Mid-POET	410-27991-14	1/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-27991-13	1/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-30339-3	2/23/2021	**28**	**4.7**	**3.1**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.9**	**30**	**5.7**	1.7 U	1.7 U
	Mid-POET	410-30339-2	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-30339-1	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-33627-15	3/23/2021	**28**	**4.4**	**2.3**	1.7 U	1.7 U	1.7 U	1.7 U *1	1.7 U	1.7 U	**6.5**	**30**	**7.2**	1.7 U	1.7 U
	Mid-POET	410-33627-14	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *1	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-33627-13	3/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *1	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre-POET	410-37354-7	4/22/2021	**22 H**	**4.2 H**	**2.4 H**	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	**4.9 H**	**31 H**	**5.8 H**	1.7 U H	1.7 U H
	Mid-POET	410-37354-6	4/22/2021	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H	1.8 U H
	Post-POET	410-37354-5	4/22/2021	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H
	Pre-POET	410-41458-7	5/25/2021	**27**	**5.5**	**2.9**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.7**	**28**	**6.5**	1.7 U	1.7 U
	Mid-POET	410-41458-6	5/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-41458-5	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-45181-10	6/23/2021	**17** *-	**4.2**	**4.3**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**2.6** *-	**26**	**9.1**	1.6 U	1.6 U
	Mid-POET	410-45181-9	6/23/2021	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U
	Post-POET	410-45181-8	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-52855-15	8/24/2021	**17**	**3.2**	**2.7**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**5.8**	**37**	**5.8**	1.6 U	1.6 U
	Mid-POET	410-52855-14	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post-POET	410-52855-13	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U

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Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property FM (20 MVR)	No POET	410-3640-3	6/3/2020	**7.9**	**2.4**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.8**	**14**	1.8 U	1.8 U
		410-12305-3	8/26/2020	**9.5**	**2.9**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**8.4**	**17**	1.8 U	1.8 U
	Pre-POET	410-33690-7	3/23/2021	**12**	**3.9**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**11**	**19**	1.7 U	1.7 U
	Mid-POET	410-33690-6	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-33690-5	3/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre-POET	410-37289-15	4/22/2021	**14**	**4.8**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**13**	**22**	1.8 U	1.8 U
	Mid-POET	410-37289-14	4/22/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-37289-13	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre-POET	410-41458-3	5/25/2021	**9.1**	**3.3**	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	**9**	**14**	2.2 U	2.2 U
	Mid-POET	410-41458-2	5/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-41458-1	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-45899-1	6/30/2021	**10**	**4.4**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**50**	**9.1**	**14**	2.6 U	1.7 U
	Mid-POET	410-45181-13	6/23/2021	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U
	Post-POET	410-45181-12	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-48582-17	7/21/2021	**9.0**	**3.1**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**8.3**	**12**	1.6 U	1.6 U
	Mid-POET	410-48582-16	7/21/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post-POET	410-48582-15	7/21/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre-POET	410-52854-14	8/24/2021	**9.2**	**3.3**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**10**	**14**	1.6 U	1.6 U
	Mid-POET	410-52854-13	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post-POET	410-52854-12	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Property GJ (28 MVR)	No POET	410-3640-7	6/4/2020	**5.7**	**2.0**	**2.3**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**6.5**	**4.8**	1.7 U	1.7 U
		410-12323-6	8/26/2020	**5.3**	**1.9**	**1.9**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**6.9**	**4.5**	1.9 U	1.9 U
		410-41458-38	5/25/2021	**5.6**	**2.1**	**2.3**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**7.3**	**4.5**	1.7 U	1.7 U	1.7 U
		410-52855-1	8/24/2021	**2.9**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**9.6**	**5.2**	1.6 U	1.6 U
Property HL (48 MVR)	No POET	410-3640-6	6/4/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-12323-12	8/26/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-22055-1	11/23/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**2**	1.9 U	1.9 U	1.9 U
		410-45180-17	6/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

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			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property IB (100 MVR)	No POET	PW1311843	5/6/2020	**99**	**88**	**20**	**15**	**2.0**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**26**	**81**	1.7 U	1.7 U
	Pre POET	410-8658-15	7/20/2020	**130**	**97**	**26**	**17**	**2.3**	1.8 U	1.8 U	1.8 U	1.8 U	**1.8**	**28**	**86**	1.8 U	1.8 U
	Mid POET	410-8658-14	7/20/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**45**	1.8 U	1.8 U
	Post POET	410-8658-13	7/20/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**4.3**	1.8 U	1.8 U
	Pre POET	410-12324-5	8/26/2020	**140**	**95**	**24**	**13**	**1.9**	1.8 U	1.8 U	1.8 U	1.8 U	**1.8**	**28**	**100**	1.8 U	1.8 U
	Mid POET	410-1224-3	8/26/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**3.1**	1.8 U	1.8 U
	Post POET	410-12324-2	8/26/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-15877-14	9/29/2020	**210**	**140**	**26**	**14**	**1.9**	1.7 U	1.7 U	1.7 U	1.7 U	**2**	**29**	**110**	1.7 U	1.7 U
	Mid POET	410-15877-12	9/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-15877-10	9/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-19539-5	10/29/2020	**260**	**150**	**52**	**16**	**2.0**	1.7 U	1.7 U	1.7 U	1.7 U	**2.5**	**32**	**100**	1.7 U	1.7 U
	Mid POET	410-19539-3	10/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-19539-1	10/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-22055-18	11/23/2020	**240**	**140**	**37**	**20**	**2.4**	1.7 U	1.7 U	1.7 U	1.7 U	**2.7**	**40**	**98**	1.7 U	1.7 U
	Mid POET	410-22055-17	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-22055-16	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-25229-8	12/28/2020	**150**	**98**	**30**	**17**	**2.4**	1.8 U	1.8 U	1.8 U	1.8 U	**2.3**	**33**	**73**	1.8 U	1.8 U
	Mid POET	410-25229-7	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-25229-6	12/28/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-27991-3	1/25/2021	**200**	**150**	**35**	**19**	**2.6**	1.8 U	1.8 U	1.8 U	1.8 U	**2.4**	**37**	**98**	1.8 U	1.8 U
	Mid POET	410-27991-2	1/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-27991-1	1/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-33690-10	3/23/2021	**150**	**110**	**34**	**20**	**2.3**	1.7 U	1.7 U	1.7 U	1.7 U	**2.4**	**34**	**76**	1.7 U	1.7 U
	Mid POET	410-33690-9	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-33690-8	3/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-37289-26	4/22/2021	**200** J	**150** J	**40 J**	**25 J**	**3.1** J	1.7 U	1.7 U	1.7 U	1.7 U	**3.1** J	**49 J**	**110 J**	1.7 U	1.7 U
	Mid POET	410-37289-25	4/22/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post POET	410-37289-24	4/22/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Property JQ (30 MVR)	No POET	410-8658-7	7/20/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**3.4**	**1.9**	1.9 U	1.9 U
		410-22062-11	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.8**	**2.6**	1.7 U	1.7 U
		410-33627-11	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *1	1.7 U	1.7 U	1.7 U	**2.2**	1.7 U	1.7 U	1.7 U
		410-41458-21	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.5**	**3.2**	1.7 U	1.7 U
		410-53024-1	8/25/2021	**2.7**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**6.8**	**11**	1.6 U	1.6 U

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property KH (52 MVR)	No POET	410-3640-4	6/3/2020	**94**	**41**	**32**	**3.7**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**38**	**410**	**600**	1.8 U	1.8 U
	Pre POET	410-10038-7	8/4/2020	**120**	**51**	**57**	**4.9**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**50**	**610**	**630**	1.9 U	1.9 U
	Mid POET	410-10038-6	8/4/2020	1.9 U	1.9 U	**2.7**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**18**	1.9 U	1.9 U
	Post POET	410-10038-5	8/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Pre POET	410-15874-13	9/29/2020	**170**	**67**	**81**	**5.2**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**43**	**650**	**530**	1.7 U	1.7 U
	Mid POET	410-15874-11	9/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**4.8**	1.8 U	1.8 U
	Post POET	410-15874-9	9/29/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**2.0**	1.9 U	1.9 U
	Pre POET	410-19539-18	10/29/2020	**160**	**48**	**38**	**4.3**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**67**	**550**	**700**	1.7 U	1.7 U
	Mid POET	410-19539-16	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.7**	1.8 U	1.8 U
	Post POET	410-19539-14	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-22062-17	11/23/2020	**130**	**44**	**38**	**4.9**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**52**	**580**	**630**	1.6 U	1.6 U
	Mid POET	410-22062-16	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**1.9**	1.8 U	1.8 U
	Post POET	410-22062-15	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-25228-7	12/28/2020	**96**	**45**	**34**	**4.3**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**56**	**490**	**570**	1.8 U	1.8 U
	Mid POET	410-25228-6	12/28/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post POET	410-25228-5	12/28/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-27991-7	1/25/2021	**140**	**47**	**37**	**4.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**52**	**640**	**770**	1.7 U	1.7 U
	Mid POET	410-27991-6	1/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-27991-5	1/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-30339-8	2/23/2021	**100**	**53**	**37**	**5.2**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**43**	**450**	**540**	1.7 U	1.7 U
	Mid POET	410-30339-7	2/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-30339-6	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-33690-4	3/23/2021	**98**	**38**	**27**	**3.8**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**48**	**520**	**620**	1.7 U	1.7 U
	Mid POET	410-33690-3	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-33690-2	3/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-37289-20	4/22/2021	**120** J	**52 J**	**44 J**	**5.5** J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**48 J**	**620 J**	**640 J**	1.8 U	1.8 U
	Mid POET	410-37289-19	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-37289-18	4/22/2021	200 U	**48 J**	**40 J**	**5.1** J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**64 J**	**950 J**	**1000 J**	1.7 U	1.7 U
	Pre POET	410-39486-4	5/11/2021	**140** J	**48 J**	**62 J**	**4.6** J	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	**48 J**	**600 J**	**460 J**	1.8 UJ	1.8 UJ
	Mid POET	410-39486-3	5/11/2021	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ
	Post POET	410-39486-2	5/11/2021	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ
	Pre POET	410-41458-37	5/25/2021	**140**	**68**	**73**	**6.7**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**51**	**600**	**440**	1.7 U	1.7 U
	Mid POET	410-41458-36	5/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-41458-35	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-45180-16	6/23/2021	**140**	**50**	**77**	**5.8**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**39**	**620**	**490**	1.7 U	1.7 U
	Mid POET	410-45180-15	6/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-45180-14	6/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-48582-11	7/21/2021	**160**	**56**	**89**	**5.3**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**39**	**590**	**450**	1.6 U	1.6 U
	Mid POET	410-48582-10	7/21/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-48582-9	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

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Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property MP (51 MVR)	No POET	410-4374-6	6/11/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.0**	1.8 U	1.8 U	1.8 U
		410-12323-10	8/26/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**8.7**	**3.0**	1.8 U	1.8 U
		410-22055-9	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**15**	**4.6**	1.7 U	1.7 U
		410-27991-8	1/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**15**	**4.9**	1.7 U	1.7 U
		410-41458-39	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**10**	**3.5**	1.7 U	1.7 U
		410-52852-7	8/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**14**	**5.1**	1.7 U	1.7 U
Property NU (34 MVR)	No POET	410-15877-8	9/29/2020	**7.5**	**3.2**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**17**	**1.6**	1.6 U	1.6 U
	Pre POET	410-45180-20	6/23/2021	**2.1**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**6.0**	1.8 U	1.8 U	1.8 U
	Mid POET	410-45180-19	6/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-45180-18	6/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-48581-18	7/22/2021	**2.9**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**7.2**	1.7 U	1.7 U	1.7 U
	Mid POET	410-48581-17	7/22/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-48581-16	7/22/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-53024-8	8/25/2021	**4.1**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**11**	1.7 U	1.7 U	1.7 U
	Mid POET	410-53024-7	8/25/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-53024-6	8/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property PR (50 MVR)	No POET	410-3640-11	6/4/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.3**	**4.7**	1.8 U	1.8 U
		410-12323-4	8/26/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**7.5**	**5.5**	1.8 U	1.8 U
		410-22055-4	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**10**	**9.4**	1.8 U	1.8 U
		410-25228-8	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**7.2**	**7.0**	1.8 U	1.8 U
		410-37354-2	4/22/2021	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	**7.6 H**	**7.8 H**	1.7 U H	1.7 U H
		410-41458-19	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**9.5**	**7.2**	1.7 U	1.7 U

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property QO (50R MVR)	No POET	PW1311846	5/6/2020	**410**	**42**	**300**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**140**	**400**	**8.5**	1.7 U	1.7 U
	Pre POET	410-8658-12	7/20/2020	**880 B**	**62 B**	**1300 B**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**220**	**1400**	**9.9**	1.8 U	1.8 U
	Mid POET	410-8658-11	7/20/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**2.7**	1.9 U	1.9 U
	Post POET	410-8658-10	7/20/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**28**	1.7 U	1.7 U
	Pre-POET	410-12322-5	8/26/2020	**830**	**53**	**1800**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**190**	**1600**	**12**	1.7 U	1.7 U
	Mid POET	410-12322-3	8/26/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-12322-1	8/26/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Pre-POET	410-15874-5	9/29/2020	**980**	**70**	**2100**	18 U	18 U	18 U	18 U	18 U	18 U	**180**	**2000**	18 U	18 U	18 U
	Mid POET	410-15874-3	9/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-15874-1	9/29/2020	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
	Pre-POET	410-19539-12	10/29/2020	**790**	**62 *3**	**2000**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**170**	**2000**	**11**	1.7 U	1.7 U
	Mid POET	410-19539-10	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-19539-8	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre-POET	410-22055-12	11/23/2020	**790**	**69**	**1600**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**160**	**1700**	**11**	1.7 U	1.7 U
	Mid POET	410-22055-11	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-22055-10	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-27991-18	1/25/2021	**810**	**95**	**1300**	17 U	17 U	17 U	17 U	17 U	17 U	**270**	**1300**	17 U	17 U	17 U
	Mid POET	410-27991-17	1/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-27991-16	1/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre-POET	410-30339-14	2/23/2021	**970**	**99**	**1300**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**220**	**1100**	**4.1**	1.7 U	1.7 U
	Mid POET	410-30339-13	2/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-30339-12	2/23/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Pre-POET	410-41458-43	5/26/2021	**690** E *3	**69 E *3**	**1500 E *3**	1.7 U *3	1.7 U *3	1.7 U *3	1.7 U *3	1.7 U *3	1.7 U *3	**180 E**	**1500 E**	**10**	1.7 U	1.7 U
	Mid POET	410-41458-42	5/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-41458-41	5/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-45182-11	6/23/2021	**580** *-	**44**	**1400**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**150**	**1400**	**9.8**	1.8 U	1.8 U
	Mid POET	410-45182-10	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-45182-9	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-48582-14	7/21/2021	**590**	**49**	**1300**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**120**	**1200**	**11**	1.7 U	1.7 U
	Mid POET	410-48582-13	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-48582-12	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-53024-4	8/25/2021	**540**	**59** *3	**1200**	1.6 U *3	1.6 U *3	1.6 U *3	1.6 U *3	1.6 U *3	1.6 U *3	**120**	**1200**	**14**	1.6 U	1.6 U
	Mid POET	410-53024-3	8/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-53024-2	8/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

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Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property RNA (46 MVR)	No POET	410-8658-22	7/21/2020	1.9 U	1.9 U	1.9 U	**9.7**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**6.9**	**32**	1.9 U	1.9 U
	Pre-POET	410-19535-9	10/29/2020	1.6 U	1.6 U	1.6 U	**20**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**12**	**61**	1.6 U	1.6 U
	Mid-POET	410-19535-7	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-19535-5	10/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-22062-7	11/23/2020	1.7 U	1.7 U	1.7 U	**24**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**13**	**66**	1.7 U	1.7 U
	Mid-POET	410-22062-6	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**1.8**	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-22062-5	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-25229-3	12/28/2020	1.7 U	1.7 U	1.7 U	**23**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**13**	**68**	1.7 U	1.7 U
	Mid-POET	410-25229-2	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-25229-1	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre-POET	410-30339-11	2/23/2021	1.7 U	1.7 U	1.7 U	**26**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**12**	**66**	1.7 U	1.7 U
	Mid-POET	410-30339-10	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-30339-9	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-33690-13	3/23/2021	1.6 U	1.6 U	1.6 U	**21**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**12**	**72**	1.6 U	1.6 U
	Mid-POET	410-33690-12	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-33690-11	3/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre-POET	410-37289-23	4/22/2021	1.7 U	1.7 U	1.7 U	**32 J**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**17** J	**91 J**	1.7 U	1.7 U
	Mid-POET	410-37289-22	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-37289-21	4/22/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-41458-13	5/25/2021	1.6 U	1.6 U	1.6 U	**14**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**9.8**	**47**	1.6 U	1.6 U
	Mid-POET	410-41458-12	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-41458-11	5/25/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre-POET	410-45182-6	6/23/2021	1.7 U *-	1.7 U	1.7 U	**7.1**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.4**	**26**	1.7 U	1.7 U
	Mid-POET	410-45182-5	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-45182-4	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Property RNB (46 MVR)	No POET	410-8658-23	7/21/2020	1.7 U	1.7 U	1.7 U	**10**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**7.2**	**32**	1.7 U	1.7 U
	Mid-POET	410-19535-3	10/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-19535-1	10/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-22062-10	11/23/2020	1.7 U	1.7 U	**5.6**	**23**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**13**	**71**	1.7 U	1.7 U
	Mid-POET	410-22062-9	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post-POET	410-22062-8	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Mid POET	410-25229-5	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-25229-4	12/28/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre-POET	410-41458-16	5/25/2021	1.8 U	1.8 U	**8.2**	**14**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**10**	**50**	1.8 U	1.8 U
	Mid-POET	410-41458-15	5/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-41458-14	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Mid-POET	410-45182-8	6/23/2021	1.8 U *-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post-POET	410-45182-7	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

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Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property SK (40 MVR)	No POET	410-3640-1	6/3/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-12323-8	8/26/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
		410-41458-22	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		410-52855-2	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**1.7**	1.6 U	1.6 U	1.6 U
Property TD (54 MVR)	No POET	410-4374-5	6/11/2020	**230**	**90**	**69**	**22**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**48**	**700**	**230**	1.8 U	1.8 U
	Pre POET	410-10038-10	8/4/2020	**220**	**94**	**78**	**29**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**47**	**790**	**390**	1.9 U	1.9 U
	Mid POET	410-10038-9	8/4/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**33**	1.8 U	1.8 U
	Post POET	410-10038-8	8/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**22**	1.9 U	1.9 U
	Pre POET	410-15877-20	9/29/2020	**270**	**100**	**120**	**37**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**53**	**1300**	**410**	1.7 U	1.7 U
	Mid POET	410-15877-18	9/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.1**	1.7 U	1.7 U
	Post POET	410-15877-16	9/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.6**	1.7 U	1.7 U
	Pre POET	410-19535-22	10/29/2020	**330**	**120**	**150**	**38**	**2.0**	**1.7**	**1.7**	1.7 U	1.7 U	**82**	**1700**	**460**	1.7 U	1.7 U
	Mid POET	410-19535-20	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-19535-18	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-22055-15	11/23/2020	**260**	**55**	**150**	**53**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**73**	**1600**	**420**	1.7 U	1.7 U
	Mid POET	410-22055-14	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-22055-13	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-25229-11	12/28/2020	**210**	**52**	**130**	**46**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**65**	**1100**	**370**	1.8 U	1.8 U
	Mid POET	410-25229-10	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-25229-9	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-39486-7	5/11/2021	**170 J**	**45 J**	**100 J**	**39 J**	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	**46 J**	**890 J**	**280 J**	1.8 UJ	1.8 UJ
	Mid POET	410-39486-6	5/11/2021	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
	Post POET	410-39486-5	5/11/2021	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ
	Pre POET	410-41458-10	5/25/2021	**150 *3J**	**65**	**86 *3J**	**49**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**38 *3J**	**1000**	**230 *3J**	1.7 U	1.7 U
	Mid POET	410-41458-9	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-41458-8	5/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-45182-14	6/23/2021	**200 *-**	**33**	**120**	**37**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**40**	**1100**	**350**	1.7 U	1.7 U
	Mid POET	410-45182-13	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-45182-12	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-48582-8	7/21/2021	**190**	**45**	**110**	**37**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**53**	**1200**	**290**	1.7 U	1.7 U
	Mid POET	410-48582-7	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-48582-6	7/21/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-52852-10	8/25/2021	**160**	**53**	**74**	**39**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**51**	**780**	**280**	1.6 U	1.6 U
	Mid POET	410-52852-9	8/25/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-52852-8	8/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property UE (60 MVR)	No POET	PW1263645	2/18/2020	**160**	**56**	**11**	**5.6**	**2.3**	0.45 z	0.45 U	0.45 U	0.45 U	**2.3**	**37**	**48**	0.45 U	0.45 U
	Pre POET	PW1311851	5/6/2020	**180**	**70**	**12**	**6.0**	**2.4**	1.8 U	1.8 U	1.8 U	1.8 U	**2.3**	**40**	**50**	1.8 U	1.8 U
	Mid POET	PW1311850	5/6/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2**	1.7 U	1.7 U
	Post POET	PW 1311849	5/6/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-3640-10	6/4/2020	**200**	**65**	**11**	**5.3**	**2.2**	2 U	2 U	2 U	2 U	**2.3**	**39**	**49**	2 U	2 U
	Mid POET	410-3640-9	6/4/2020	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
	Post POET	410-3640-8	6/4/2020	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
	Pre POET	410-8658-4	7/20/2020	**190**	**63**	**11**	**6.1**	**2.5**	2.1 U	2.1 U	2.1 U	2.1 U	**2.4**	**38**	**50**	2.1 U	2.1 U
	Mid POET	410-8658-3	7/20/2020	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
	Post POET	410-8658-2	7/20/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Pre POET	410-12326-5	8/26/2020	**190**	**63**	**12**	**6.2**	**2.5**	2 U	2 U	2 U	2 U	**2.2**	**38**	**51**	2 U	2 U
	Mid POET	410-12326-3	8/26/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post POET	410-12326-1	8/26/2020	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
	Pre POET	410-15877-6	9/29/2020	**300**	**95**	**16**	**8.0**	**3.4**	1.8 U	1.8 U	1.8 U	1.8 U	**2.7**	**46**	**62**	1.8 U	1.8 U
	Mid POET	410-15877-4	9/29/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post POET	410-15877-2	9/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-19528-6	10/29/2020	**220**	**75**	**14**	**7.6**	**3.2**	1.9 U	1.9 U	1.9 U	1.9 U	**2.3**	**44**	**53**	1.9 U	1.9 U
	Mid POET	410-19528-4	10/29/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post POET	410-19528-2	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-22055-7	11/23/2020	**250**	**100**	**20**	**11**	**4.4**	1.8 U	1.8 U	1.8 U	1.8 U	**2.5**	**45**	**57**	1.8 U	1.8 U
	Mid POET	410-22055-6	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-22055-5	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-45182-3	6/23/2021	**180** *-	**62**	**11**	**7.4**	**3.0**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**30**	**44**	1.9 U	1.9 U
	Mid POET	410-45182-2	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-45182-1	6/23/2021	1.9 U *-	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Pre POET	410-48584-17	7/21/2021	**190**	**95**	**15**	**9.2**	**3.4**	1.7 U	1.7 U	1.7 U	1.7 U	2.2	**38**	**51**	1.7 U	1.7 U
	Mid POET	410-48584-16	7/21/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-48584-15	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-52855-7	8/24/2021	**200**	**100**	**15**	**10**	**4.2**	1.9 U	1.9 U	1.9 U	1.9 U	**2.0**	**35**	**48**	1.9 U	1.9 U
	Mid POET	410-52855-6	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-52855-5	8/24/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U

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14 Airport Road, Nantucket, MA 02554
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			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property VTA (56 MVR)	No POET	410-15874-7	9/29/2020	**730**	**320**	**130**	**82**	**35 *3**	**2.7 *3**	1.7 U	1.7 U	1.7 U	1.7 U	**15**	**14**	1.7 U	1.7 U
	Pre POET	410-45181-4	6/23/2021	**490 *-**	**220**	**72**	**60**	**30 *3**	**2.8 *3**	1.6 U *3	1.6 U *3	1.6 U *3	1.6 U *-	**19**	**16**	1.6 U	1.6 U
	Mid POET	410-45181-3	6/23/2021	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-45181-2	6/23/2021	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-48582-3	7/21/2021	**640**	**270**	**84**	**61**	**29 *3**	**2.6 *3**	1.7 U *3	1.7 U *3	1.7 U *3	1.7 U	**30**	**24**	1.7 U	1.7 U
	Mid POET	410-48582-2	7/21/2021	**1.6**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**5.2**	**49**	1.6 U	1.6 U
	Post POET	410-48582-1	7/21/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-52855-12	8/24/2021	**530**	**290**	**75**	**54**	**35 *3**	**3.1 *3**	1.7 U *3	1.7 U *3	1.7 U *3	**2.0**	**57**	**43**	1.7 U	1.7 U
	Mid POET	410-52855-11	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-52855-10	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Property VTB (56 MVR)[1]	Mid POET	410-45181-7	6/23/2021	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-45181-6	6/23/2021	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U
	Mid POET	410-48582-5	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-48582-4	7/21/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Mid POET	410-52855-9	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-52855-8	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Property WG (44 MVR)	No POET	410-3640-5	6/3/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		410-12305-1	8/26/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.9**	**2.8**	1.8 U	1.8 U	1.8 U
		410-22055-8	11/23/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.2**	1.7 U	1.7 U	1.7 U	1.7 U
		410-37354-4	4/22/2021	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	**1.9 H**	**2.1 H**	1.6 U H	1.6 U H	1.6 U H
		410-41458-40	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.9**	**2.4**	1.7 U	1.7 U	1.7 U
		410-52855-3	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.4**	**4.3**	1.6 U	1.6 U	1.6 U

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property XA (12 MVR)	No POET	PW1311845	5/6/2020	**9.5**	**3.7**	**7.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**11**	**87**	**530**	1.7 U	1.7 U
	Pre POET	410-8658-9	7/20/2020	**12**	**3.4**	**7.0**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**13**	**100**	**470**	1.8 U	1.8 U
	Mid POET	410-8658-8	7/20/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**52**	1.8 U	1.8 U
	Post POET	410-8658-24	7/20/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**13**	1.8 U	1.8 U
	Pre POET	410-12284-5	8/26/2020	**8.8**	**2.7**	**5.1**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**10**	**82**	**350**	1.8 U	1.8 U
	Mid POET	410-12284-3	8/26/2020	**9**	**2.9**	**5.1**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**10**	**89**	**340**	1.9 U	1.9 U
	Post POET	410-12284-1	8/26/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-15874-20	9/29/2020	**8.5**	**2.9**	**6.0**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**9.3**	**99**	**410**	1.7 U	1.7 U
	Mid POET	410-15874-18	9/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.2**	1.7 U	1.7 U
	Post POET	410-15874-16	9/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-19528-22	10/29/2020	**6.9**	**2.2**	**4.7**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**6.6**	**69**	**270**	1.7 U	1.7 U
	Mid POET	410-19528-20	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-19528-18	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-22062-14	11/23/2020	**5.2**	1.8 U	**3.7**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.4**	**58**	**220**	1.8 U	1.8 U
	Mid POET	410-22062-13	11/23/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post POET	410-22062-12	11/23/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Pre POET	410-25229-14	12/28/2020	**3.7**	1.7 U	**2.6**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.1**	**39**	**140**	1.7 U	1.7 U
	Mid POET	410-25229-13	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-25229-12	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-27991-12	1/25/2021	**4.4**	1.8 U	**2.8**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.6**	**42**	**150**	1.8 U	1.8 U
	Mid POET	410-27991-11	1/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-27991-10	1/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-30347-16	2/23/2021	**4.9**	**1.7**	**2.6**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**9.3**	**38**	**130**	1.7 U	1.7 U
	Mid POET	410-30347-15	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-30347-14	2/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-33627-18	3/23/2021	**4.6**	1.6 U	**2.3**	1.6 U	1.6 U	1.6 U	1.6 U *1	1.6 U	1.6 U	**8.5**	**41**	**130**	1.6 U	1.6 U
	Mid POET	410-33627-17	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U *1	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-33627-16	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *1	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-37289-29	4/22/2021	**8.0 J**	**2.8 J**	**4.8 J**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**10 J**	**66 J**	**240 J**	1.8 U	1.8 U
	Mid POET	410-37289-28	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-37289-27	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-41458-49	5/26/2021	**8.6**	**3.0**	**5.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**11**	**93**	**350**	1.7 U	1.7 U
	Mid POET	410-41458-48	5/26/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post POET	410-41458-47	5/26/2021	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
	Pre POET	410-45182-18	6/23/2021	3.2 *-	1.7 U	**2.1**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.3 *-	**33**	**110**	1.7 U	1.7 U
	Mid POET	410-45182-17	6/23/2021	1.8 U *-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U *-	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-45182-16	6/23/2021	1.9 U *-	1.9 U *-	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property XA (12 MVR) - cont.	Pre POET	410-48581-3	7/21/2021	**2.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.4**	**15**	**51**	1.7 U	1.7 U
	Mid POET	410-48581-2	7/21/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-48581-1	7/21/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-52852-3	8/24/2021	**2.6**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**6.7**	**12**	**49**	1.6 U	1.6 U
	Mid POET	410-52852-2	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-52852-1	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Property 8H (Hangar 8)	No POET	410-8658-21	7/21/2020	**4.7**	**2.7**	**4.4**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.2**	**1.7**	**6.6**	1.7 U	1.7 U
FIELD QUALITY CONTROL SAMPLES																	
DUPLICATES	**DW1**	PW1263646	2/18/2020	**170**	**55**	**11**	**5.5**	**2.4**	0.45 U	0.45 U	0.45 U	0.45 U	**2.4**	**39**	**50**	0.45 U	0.45 U
	QA-01	PW1311847	5/6/2020	**430**	**45**	**300**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**140**	**410**	**9.1**	1.7 U	1.7 U
	QA-02	410-3640-12	6/4/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.2**	**4.9**	1.8 U	1.8 U
	QA-03	410-4374-7	6/11/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.1**	1.8 U	1.8 U	1.8 U
	QA-04	410-10038-3	8/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**4.9**	**4.8**	1.9 U	1.9 U
	QA-05	410-12323-15	8/26/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**8.7**	**3.0**	1.8 U	1.8 U
	QA-06	410-12305-5	8/26/2020	**9.4**	**3.1**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**7.8**	**17**	1.9 U	1.9 U
	QA-06	410-15874-15	9/29/2020	**170**	**62**	**81**	**5.3**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**43**	**850**	**510**	1.7 U	1.7 U
	PR-BFCT	410-25228-9	12/28/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	MP-BFCT	410-27991-9	1/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	BI-BFCT	410-30339-5	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	JQ-BFCT	410-33627-12	3/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *1	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	DX-SPGT	410-37354-9	4/22/2021	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H	1.6 U H
	PR-BFCT	410-37354-3	4/22/2021	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H
	QA-0521-01	410-41458-4	5/25/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	EV-INF	410-45181-11	6/23/2021	**17** *-	**4.4**	**4.5**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**2.7** *-	**27**	**9.5**	1.6 U	1.6 U
	TD-INF	410-45182-15	6/23/2021	**200** *-	**31** *-	**120**	**35**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**39**	**1100**	**350**	1.7 U	1.7 U
	VTA-INF	410-45181-5	6/23/2021	**540** *-	**240**	**79**	**66**	**34** *3	**3.3** *3	1.7 U *3	1.7 U *3	1.7 U *3	1.7 U *-	**20**	**17**	1.7 U	1.7 U
	XA-INF	410-45182-19	6/23/2021	**3.1** *-	1.7 U	**2**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.2 *-	**32**	**120**	1.7 U	1.7 U
	BI-SPGT	410-52852-17	8/25/2021	**3.1**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**6.4**	**1.6**	1.6 U	1.6 U
	DX-SPGT	410-52854-17	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**9.0**	**5.7**	1.7 U	1.7 U
	KH-INF	410-48582-18	7/21/2021	**180**	**64**	**97**	**5.8**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**41**	**620**	**500**	1.7 U	1.7 U
	UE-INF	410-48584-18	7/21/2021	**180**	**82**	**14**	**9.3**	**3.5**	1.7 U	1.7 U	1.7 U	1.7 U	**2.2**	**37**	**51**	1.7 U	1.7 U
	FFGAC-INF	410-48581-15	7/22/2021	**190**	**160**	**490**	**170**	**210**	**67**	**63**	**25** *3	**21** *3	**9.7**	**1.9**	**5.2**	1.7 U*3	1.7 U*3
	WG-SPGT	410-52855-4	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.6**	**4.5**	1.6 U	1.6 U	1.6 U

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

		Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
		Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
		Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
		CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
		RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID	**Laboratory ID**	**Date Sampled**														
FIELD QUALITY CONTROL SAMPLES (continued)																
FIELD BLANKS	GW1263637	2/17/2020	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.5 U
	PW1311848	5/6/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-3640-2	6/3/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-4374-2EB	6/11/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-8658-1	7/20/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-12284-7	8/26/2020	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
	410-12322-7	8/26/2020	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
	410-12324-7	8/26/2020	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
	410-12326-7	8/26/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-15874-22	9/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-15877-1	9/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-19539-7	10/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	410-19535-17	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-22055-19	11/23/2020	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	410-22062-1	11/23/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-25228-4	12/28/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-25229-16	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-27991-4	1/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	410-30339-15	2/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-30347-1	2/23/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-33627-1	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U *1	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
FIELD QUALITY CONTROL SAMPLES (continued)																
FIELD BLANKS	410-33690-1	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-37289-16	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-37289-30	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-37354-1	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-39486-1	5/11/2021	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ
	410-41458-4	5/25/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-41458-27	5/26/2021	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	410-45180-1	6/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	410-45181-1	6/23/2021	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *-	1.6 U	1.6 U	1.6 U	1.6 U
	410-45182-20	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U
	410-45899-2	6/30/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	410-46523-4	7/8/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-48582-19	7/21/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-48581-19	7/22/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-52854-1	8/24/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-52855-16	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	410-52852-6	8/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-53024-5	8/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

		Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
		Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
		Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
		CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
		RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID	**Laboratory ID**	**Date Sampled**														
TRIP BLANKS	PW1263644	2/11/2020	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
	PW1311852	5/1/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-3640-13	6/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-4374-1	6/11/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-10038-19	8/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-12284-8	8/26/2020 (XA)	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-12322-8	8/26/2020 (QO)	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-12324-8	8/26/2020 (IB)	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-12326-8	8/26/2020 (UE)	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
	410-12323-14	8/26/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-15874-23	9/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-15877-22	9/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
FIELD QUALITY CONTROL SAMPLES (concluded)																
TRIP BLANKS	410-19539-20	10/29/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-19535-24	10/29/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	410-22062-18	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-22055-20	11/23/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-25228-10	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-25229-17	12/28/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-27991-19	1/25/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-30339-16	2/23/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-30347-17	2/23/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-33627-19	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U *1	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-33690-18	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-37289-17	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-37289-31	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-37354-16	4/22/2021	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H	1.7 U H
	410-39486-8	5/11/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-41458-17	5/21/2021	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
	410-41458-34	5/21/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-41458-50	5/21/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-41458-57	5/21/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-45181-19	6/23/2021	1.8 U *-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-45182-21	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U
	410-48582-20	7/21/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-48581-20	7/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-52854-2	8/24/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-52855-17	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	410-52852-18	8/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-53024-9	8/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U

Table 1
Summary of PFAS Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

		Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
		Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
		Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
		CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
		RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID	**Laboratory ID**	**Date Sampled**														

Definitions and notes:

[4] = Number of fluorinated carbon chains for perfluorinated carboxylic acids

[4S] = Number of fluorinated carbon chains for perfluorinated sulfonates

ng/L = nanogram per liter, equivalent to parts per trillion

CAS No. = Chemical Abstract Service registry number

na = not applicable/standard has not been established

MVR = Madequecham Valley Road

RCGW-1 = Reportable Concentrations in Groundwater, cleanup standard for areas protected for current or future use as drinking water sources

PFAS = per- and polyfluoroalkyl substances

U = Compound not detected above the associated lab reporting limit.

*- = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits, low biased.

*3 = Internal standard response or retention time outside acceptable limits.

H = Holding time exceeded.

E = Result exceeded calibration range.

B = Laboratory internal standard was outside allowable limits and the data are estimated.

PFAS6 = Massachusetts Department of Environmental Protection regulates six PFAS compounds including PFHpA, PFOA, PFNA, PFDA, PFHxS, and PFOS.

Bold font indicates compound detected above the laboratory reporting limit.

Gray shading indicates detected concentration meets or exceeds RCGW-1.

Black shading and white font indicated detection greater than 10 times the RCGW-1 criteria.

Table 2
Summary of PFAS Detections in Drinking Water – Western Properties
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Subgroup				Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
Analyte				Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
Acronym				PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
CAS No.				307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
RCGW-1 (ng/L)				na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property BA (0 Monohansett)	No POET	410-8672-11	7/22/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Property BE (51 Weweeder)	No POET	410-8672-14	7/22/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property BJ (21 Monohansett)	No POET	410-8658-18	7/20/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Property BM (78 Skyline)	No POET	410-12305-8	8/26/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**12**	1.8 U	1.8 U	1.8 U	1.8 U
Property CB (2 Webster)	No POET	410-22053-1	11/24/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Property CX (75 Pochick)	No POET	410-8658-16	7/20/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property DM (3 Webster)	No POET	410-8672-12	7/22/2020	**2.3**	1.8 U	**4.0**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property FQ (1 Monohansett)	No POET	410-8672-4	7/21/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Property GV (11 Adams)	No POET	410-8672-5	7/21/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U

Table 2
Summary of PFAS Detections in Drinking Water – Western Properties
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
			Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property HFA (77 Skyline)	No POET	410-12305-13	8/26/2020	**19**	**13**	**3.0**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**14**	**3.4**	1.9 U	1.9 U	1.9 U
		410-15872-3	9/30/2020	**22**	**17**	**3.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**13**	**5.4**	1.7 U	1.7 U	1.7 U
	Pre POET	410-27999-7	1/26/2021	**16**	**11**	**2.2**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**8.2**	**4.8**	1.8 U	1.8 U	1.8 U
	Mid POET	410-27999-6	1/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	<1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-27999-5	1/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	<1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-30347-10	2/23/2021	**19**	**13**	**2.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**9.9**	**5.6**	1.7 U	1.7 U	1.7 U
	Mid POET	410-30347-9	2/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-30347-8	2/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-33627-7	3/23/2021	**21**	**15**	**2.6**	1.7 U	1.7 U	1.7 U	1.7 U *1	1.7 U	1.7 U	**11**	**5.0**	1.7 U	1.7 U	1.7 U
	Mid POET	410-33627-6	3/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *1	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-33627-5	3/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *1	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-37289-6	4/22/2021	**24**	**20**	**3.8**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**14**	**5.8**	1.7 U	1.7 U	1.7 U
	Mid POET	410-37289-5	4/22/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-37289-4	4/22/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-41458-56	5/26/2021	**19**	**15**	**3.0**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**13**	**4.2**	1.9 U	1.9 U	1.9 U
	Mid POET	410-41458-55	5/26/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-41458-54	5/26/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Pre POET	410-45180-10	6/23/2021	**14**	**11**	**2.7**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**9.7**	**3.5**	1.7 U	1.7 U	1.7 U
	Mid POET	410-45180-9	6/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-45180-8	6/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-48584-14	7/21/2021	**17**	**13**	**2.7**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**10**	**3.3**	1.7 U	1.7 U	1.7 U
	Mid POET	410-48584-13	7/21/2021	**16**	**12**	**2.6**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**10**	**3.5**	1.6 U	1.6 U	1.6 U
	Post POET	410-48584-12	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-52854-8	8/24/2021	**19**	**15**	**3.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**11**	**5.0**	1.7 U	1.7 U	1.7 U
	Mid POET	410-52854-7	8/24/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post POET	410-52854-6	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U

Table 2
Summary of PFAS Detections in Drinking Water – Western Properties
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Subgroup				Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
Analyte				Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
Acronym				PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
CAS No.				307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
RCGW-1 (ng/L)				na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property HFB (77B Skyline)[1]	Pre POET	410-27999-10	1/26/2021	**16**	**11**	**2.2**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**8.2**	**4.8**	**27**	1.7 U	1.7 U
	Mid POET	410-27999-9	1/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-27999-8	1/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-30347-13	2/23/2021	**15**	**11**	**2.1**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**7.7**	**4.2**	**13**	1.8 U	1.8 U
	Mid POET	410-30347-12	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-30347-11	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-33690-16	3/23/2021	**19**	**14**	**2.4**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**13**	**4.9**	1.8 U	1.8 U	1.8 U
	Mid POET	410-33690-15	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-33690-14	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-37289-9	4/22/2021	**25**	**21**	**4.2**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**15**	**6.2**	1.8 U	1.8 U	1.8 U
	Mid POET	410-37289-8	4/22/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-37289-7	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-41458-53	5/25/2021	**19**	**15**	**3.1**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**12**	**4.3**	1.7 U	1.7 U	1.7 U
	Mid POET	410-41458-52	5/25/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-41458-51	5/25/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-45180-13	6/23/2021	**14**	**11**	**2.8**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**9.8**	**3.4**	1.7 U	1.7 U	1.7 U
	Mid POET	410-45180-12	6/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-45180-11	6/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-48584-5	7/21/2021	**19**	**14**	**3.2**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**12**	**3.9**	1.8 U	1.8 U	1.8 U
	Mid POET	410-48584-4	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-48584-3	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Mid POET	410-52852-5	8/24/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-52852-4	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

Table 2
Summary of PFAS Detections in Drinking Water – Western Properties
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Subgroup				Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
Analyte				Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
Acronym				PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
CAS No.				307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
RCGW-1 (ng/L)				na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property HM (1 Webster)	No POET	410-8672-8	7/22/2020	**2.0**	1.8 U	**3.9**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property HZ (25 Monohansett)	No POET	410-8658-19	7/20/2020	**4.8**	**2.6**	**9.7**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property IE (50 Okorwaw)	No POET	410-8672-3	7/21/2020	**1.9**	**1.9**	**5.7**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Property JI (42 Monohansett)	No POET	410-12305-7	8/26/2020	**14**	**14**	**25**	**2.1**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.8**	**4.2**	**11**	1.8 U	1.8 U
	Pre POET	410-27999-13	1/26/2021	**13**	**14**	**29**	**2.4**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.6**	**5.2**	**19**	1.8 U	1.8 U
	Mid POET	410-27999-12	1/26/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Post POET	410-27999-11	1/26/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-30347-7	2/23/2021	**12**	**14**	**28**	**2.3**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.0**	**5.5**	**20**	1.7 U	1.7 U
	Mid POET	410-30347-6	2/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-30347-5	2/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-33627-10	3/23/2021	**10**	**11**	**22**	**1.9**	1.8 U	1.8 U	1.8 U *1	1.8 U	1.8 U	**3.1**	**4.4**	**17**	1.8 U	1.8 U
	Mid POET	410-33627-9	3/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U *1	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-33627-8	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *1	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-37289-12	4/22/2021	**11**	**13**	**26**	**2.2**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**4.1**	**5.5**	**20**	1.8 U	1.8 U
	Mid POET	410-37289-11	4/22/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-37289-10	4/22/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-41458-30	5/26/2021	**7.4**	**7.0**	**14**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.8**	**3.1**	**10**	1.8 U	1.8 U
	Mid POET	410-41458-29	5/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-41458-28	5/26/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-45180-7	6/23/2021	**9.0**	**9.6**	**22**	**1.8**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.0**	**4.1**	**15**	1.7 U	1.7 U
	Mid POET	410-45180-6	6/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Post POET	410-45180-5	6/23/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Pre POET	410-48584-8	7/21/2021	**7.4**	**7.7**	**17**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.2**	**3.3**	**13**	1.8 U	1.8 U
	Mid POET	410-48584-7	7/21/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-48584-6	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-52854-11	8/24/2021	**9.7**	**12**	**26**	**2.0**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.8**	**4.8**	**23**	1.7 U	1.7 U
	Mid POET	410-52854-10	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-52854-9	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

Table 2
Summary of PFAS Detections in Drinking Water – Western Properties
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Subgroup				Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
Analyte				Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
Acronym				PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
CAS No.				307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
RCGW-1 (ng/L)				na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property MG (65 Nobadeer)	No POET	410-10038-12	8/4/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property ML (47 Okorwaw)	No POET	410-8672-15	7/22/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property MQ (87A Skyline)	No POET	410-8658-20	7/20/2020	**11**	**6.9**	**20**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.7**	**3.9**	1.7 U	1.7 U
	Pre POET	410-19522-10	10/30/2020	**9.5**	**6.4**	**17**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.7**	**3.4**	1.7 U	1.7 U
	Mid POET	410-19522-8	10/30/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-19522-6	10/30/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-22053-5	11/24/2020	**12**	**6.7**	**21**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.1**	**4.2**	1.7 U	1.7 U
	Mid POET	410-22053-4	11/24/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-22053-3	11/24/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-25228-3	12/28/2020	**9.7**	**6.1**	**17**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.0**	**3.5**	1.7 U	1.7 U
	Mid POET	410-25228-2	12/28/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-25228-1	12/28/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-27999-3	1/26/2021	**12**	**7.1**	**19**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**4.2**	**3.4**	1.8 U	1.8 U
	Mid POET	410-27999-2	1/26/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-27999-1	1/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-30347-4	2/23/2021	**12**	**7.5**	**20**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.6**	**3.0**	1.7 U	1.7 U
	Mid POET	410-30347-3	2/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-30347-2	2/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-33627-4	3/23/2021	**11**	**6.6**	**18**	1.7 U	1.7 U	1.7 U	1.7 U *1	1.7 U	1.7 U	**1.7**	**3.4**	**3.4**	1.7 U	1.7 U
	Mid POET	410-33627-3	3/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *1	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-33627-2	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U *1	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Pre POET	410-37289-3	4/22/2021	**13**	**9.2**	**25**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.9**	**5.1**	**4.4**	1.7 U	1.7 U
	Mid POET	410-37289-2	4/22/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-37289-1	4/22/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	Pre POET	410-41458-33	5/26/2021	**12**	**8.4**	**21**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.2**	**4.0**	1.7 U	1.7 U
	Mid POET	410-41458-32	5/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-41458-31	5/26/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-48584-11	7/21/2021	**11**	**7.4**	**19**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.7 U**	**4.5**	**4.0**	1.7 U	1.7 U
	Mid POET	410-48584-10	7/21/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Post POET	410-48584-9	7/21/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Pre POET	410-52854-5	8/24/2021	**10**	**8**	**20**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**5.3**	**4.8**	1.6 U	1.6 U
	Mid POET	410-52854-4	8/24/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-52854-3	8/24/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U

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Summary of PFAS Detections in Drinking Water – Western Properties
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Subgroup				Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
Analyte				Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
Acronym				PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
			CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
			RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property MQ (87A Skyline) cont.	Pre POET	410-45180-4	6/23/2021	**7.5**	**5.7**	**15**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.1**	**3.6**	1.7 U	1.7 U
	Mid POET	410-45180-3	6/23/2021	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Post POET	410-45180-2	6/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property OC (51 Okorwaw)	No POET	410-8672-13	7/22/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property PTA (49 Okorwaw)	No POET	410-8672-10	7/22/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property PTB (49 Okorwaw)	No POET	410-8672-9	7/22/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property QD (84 Skyline)	No POET	410-15872-13	9/30/2020	**2.0**	1.7 U	**2.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.4**	1.7 U	1.7 U	1.7 U
Property QK (2 Monohansett)	No POET	410-8672-1	7/21/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Property RA (71 Pochick)	No POET	410-8672-16	7/22/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Property RB (31 Monohansett)	No POET	410-8672-2	7/21/2020	1.8 U	1.8 U	**3.0**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property RJ (66 Skyline)	No POET	410-22053-11	11/24/2020	1.7 U	1.7 U	**2.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.6**	1.7 U	1.7 U
Property RY (78 Skyline)	No POET	410-12305-10	8/26/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.1**	**2.7**	1.7 U	1.7 U	1.7 U
Property RZ (73 Pochick)	No POET	410-8658-17	7/20/2020	2.0 U	2.0 U	**2.3**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**4.2**	2.0 U	2.0 U
Property SB (63 Nobadeer)	No POET	410-10038-11	8/4/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Property SL (90 Skyline)	No POET	410-15872-5	9/30/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Property VC (65 Skyline)	No POET	410-22053-6	11/24/2020	**2.8**	**2.5**	**3.9**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Property VP (1A Monohansett)	No POET	410-8672-17	7/22/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Property WH (83 Skyline)	No POET	410-8672-6	7/21/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Property YI (5 Webster)	No POET	410-19522-16	10/30/2020	**16**	**8.2**	**3.7**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**11**	1.8 U	1.8 U	1.8 U	1.8 U
Property YVA (39 Monohansett)	No POET	410-10038-13	8/4/2020	**11**	**6.8**	**19**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.6**	**3.4**	1.8 U	1.8 U
Property YVB (39 Monohansett)	No POET	410-10038-14	8/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**11**	1.9 U	1.9 U	1.9 U	1.9 U

Table 2
Summary of PFAS Detections in Drinking Water – Western Properties
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Subgroup				Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
Analyte				Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
Acronym				PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
CAS No.				307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
RCGW-1 (ng/L)				na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID		**Laboratory ID**	**Date Sampled**														
Property ZG (72 Skyline)	No POET	410-19522-14	10/30/2020	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**55**	1.7 U	**1.7**	1.7 U	1.7 U
FIELD QUALITY CONTROL SAMPLES																	
DUPLICATES	**QA-04**	410-10038-3	8/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**4.9**	**4.8**	1.9 U	1.9 U
	QA-07	410-15872-12	9/30/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	VC-GSINK-112420 DUP	410-22053-7	11/24/2020	**3.2**	**2.7**	**2.9**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.9**	1.7 U	1.7 U	1.7 U	1.7 U
	HFB-0321-INF-2	410-33690-17	3/23/2021	**19**	**14**	**2.4**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**12**	**4.7**	1.7 U	1.7 U	1.7 U
	HFB-0521-INF-DUP	410-41458-58	5/25/2021	**18**	**14**	**3.2**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**13**	**4.2**	**3.8**	1.8 U	1.8 U
FIELD QUALITY CONTROL SAMPLES (continued)																	
FIELD BLANKS		410-8658-1	7/20/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
		410-8672-7	7/22/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
		410-10038-1	8/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
		410-12305-15	8/26/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
		410-15872-11	9/30/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-19522-1	10/30/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-22053-2	11/24/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-25228-4	12/28/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
		410-27999-18	1/26/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-30347-1	2/23/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
		410-30339-15	2/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U *1	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-33627-1	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U *1	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-33690-1	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-37289-16	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-37289-30	4/22/2021	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ
		410-41458-4	5/25/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
		410-41458-27	5/26/2021	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
		410-45180-1	6/23/2021	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
		410-52854-1	8/24/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-52852-6	8/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U

Table 2
Summary of PFAS Detections in Drinking Water – Western Properties
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

		Subgroup	Carboxylic Acids									Sulfonates / Sulfonic Acids			Perfluoroalkane Sulfonamido Substances	
		Analyte	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
		Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFBS [4S]	PFHxS [6S]	PFOS [8S]	NEtFOSAA	NMeFOSAA
		CAS No.	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	375-73-5	355-46-4	1763-23-1	2991-50-6	2355-31-9
		RCGW-1 (ng/L)	na	20	20	20	20	na	na	na	na	na	20	20	na	na
Sample Location ID	**Laboratory ID**	**Date Sampled**														
FIELD QUALITY CONTROL SAMPLES (continued)																
TRIP BLANKS	410-8672-18	7/21/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-10038-19	8/4/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-12305-14	8/26/2020	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-15872-17	9/30/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-19522-18	10/30/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-22053-12	11/24/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-25228-10	12/28/2020	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-27999-22	1/26/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.9 U	1.9 U
	410-30347-17	2/23/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-33627-19	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U *1	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-33690-18	3/23/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-37289-17	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-37289-31	4/22/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-41458-17	5/21/2021	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
	410-41458-34	5/21/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-41458-50	5/21/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-41458-57	5/21/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-45180-21	6/23/2021	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U *-	1.7 U	1.7 U	1.7 U	1.7 U
	410-52854-2	8/24/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-52852-18	8/25/2021	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U

Definitions and notes:

[4] = Number of fluorinated carbon chains for perfluorinated carboxylic acids
[4S] = Number of fluorinated carbon chains for perfluorinated sulfonates
ng/L = nanogram per liter, equivalent to parts per trillion
CAS No. = Chemical Abstract Service registry number
na = not applicable/standard has not been established
PFAS = per- and polyfluoroalkyl substances
[1]The influent water source is the same for both systems at certain properties with two POETs. As a result, only one influent sample may be collect and is reported with the primary residence Property ID.

U = Compound not detected above the associated lab reporting limit.
*1 = Laboratory control sample/laboratory control sample relative percent difference exceeds control limits.
*_ = LCS and/or LCSD is outside acceptance limits, low biased.
PFAS6 = Massachusetts Department of Environmental Protection regulates six PFAS compounds including PFHpA, PFOA, PFNA, PFDA, PFHxS, and PFOS.
Bold font indicates compound detected above the laboratory reporting limit.
Gray shading indicates detected concentration meets or exceeds GW-1

Table 3
Summary of PFAS in Soil
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Subgroup: Carboxylic Acids

		Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled	Perfluorobutanoic acid PFBA [4]	Perfluoropentanoic acid PFPeA [5]	Perfluorohexanoic acid PFHxA [6]	Perfluoroheptanoic acid PFHpA [7]	Perfluorooctanoic acid PFOA [8]	Perfluorononanoic acid PFNA [9]	Perfluorodecanoic acid PFDA [10]	Perfluoroundecanoic acid PFUNA [11]	Perfluorododecanoic acid PFDoA [12]	Perfluorotridecanoic acid PFTrDA [13]	Perfluorotetradecanoic acid PFTeDA [14]	Perfluorohexadecanoic acid PFHxDA [16]	Perfluorooctadecanoic acid PFODA [18]
					CAS No.	375-22-4	2706-90-3	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	67905-19-5	16517-11-6
					S-1/GW-1 (ng/g)	na	na	na	0.50	0.72	0.32	0.30	na	na	na	na	na	na
					S-1/GW-3 (ng/g)	na	na	na	300	300	300	300	na	na	na	na	na	na
					S-2/S-3/GW-3 (ng/g)	na	na	na	400	400	400	400	na	na	na	na	na	na
AFFF APPLICATION AREAS	South Ramp at B	SB-1	0-1	410-13916-2	9/11/2020	2.1 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
			1-2	410-13916-3	9/11/2020	2.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U
		SRB-01-S	13-15	410-21749-21	11/19/2020	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			32-34	410-21749-22	11/19/2020	0.85 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		SRB-05-S	0-1	410-37210-12	4/23/2021	0.83 U	**0.30 J**	0.21 U	**0.30 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			0-1 (DUP)	410-37210-13	4/23/2021	0.82 U	**0.37 J**	0.20 U	**0.24 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-37210-14	4/23/2021	0.81 U	**0.20 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		SRB-06-S	0-1	410-37210-15	4/23/2021	0.79 U	0.20 U	**0.35 J**	0.20 U	**1.3**	0.20 U	**0.43 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-37210-16	4/23/2021	0.77 U	0.19 U	0.19 U	0.19 U	**0.46 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
			1-2 (DUP)	410-37210-17	4/23/2021	0.82 U	0.20 U	**0.29 J**	0.20 U	**1.1**	0.20 U	**0.36 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		SRB-07-S	0-1	410-37210-10	4/23/2021	0.79 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-37210-11	4/23/2021	0.88 U	**0.27 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		SRB-08-S	3-4	410-40917-3	5/17/2021	0.78 U	0.2 U	0.20 U	0.20 U	**2.2**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			12-13	410-40917-4	5/17/2021	0.76 U	0.19 U	0.19 U	0.19 U	**2.6**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
			31-32	410-40917-5	5/17/2021	0.87 U	**0.3 J**	**0.33 J**	**0.24 J**	**1.4**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		SB-2	0-1	410-13916-4	9/11/2020	2.2 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
			0-1 (DUP)	410-13916-5	9/11/2020	2.2 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
			1-2	410-13916-6	9/11/2020	2.1 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
		SB-3	0-1	410-13916-7	9/11/2020	2.1 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
			1-2	410-13916-8	9/11/2020	1.9 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
		SB-4	0-1	410-13916-9	9/11/2020	2.0 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
			1-2	410-13916-10	9/11/2020	2.0 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U
	Runway 6 Runup	RW6-01-S	0-1	410-21753-1	11/18/2020	**1.5 J**	**1.9**	**3.5**	**1.00**	**1.6**	**0.50 J**	**2 I**	**4.5**	**5.0**	**2.9**	**1.4**	**0.31 J**	0.21 U
			1-2	410-21753-2	11/18/2020	**0.88 J**	**1.3**	**0.70**	**0.66**	**0.48 J**	**0.61 J**	**1.9**	**4.9**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		RW6-02-S	0-1	410-21753-3	11/18/2020	**1.5 J**	**2.7**	**1.6**	**2.00**	**1.3**	**1.1**	**1.9**	**4.5**	**1.6**	**0.61 J**	**0.23 J**	0.21 U	0.21 U
			0-1 (DUP)	410-21753-4	11/18/2020	**1.6 J**	**3.1**	**1.7**	**2.1**	**1.5**	**1.2**	**2.5**	**4.6**	**1.9**	**0.84**	0.21 U	0.21 U	0.21 U
			1-2	410-21753-5	11/18/2020	**1.2 J**	**2.2**	**1.2**	**1.9**	**1.5**	**2.6**	**5.5**	**1.0**	**0.21 J**	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-03-S	0-2	410-21753-6	11/18/2020	0.82 U	**0.26 J**	0.21 U	0.21 U	**0.24 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			11-13	410-21753-7	11/18/2020	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			13-15	410-21753-8	11/18/2020	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-04-S	0-1	410-21753-9	11/18/2020	0.80 U	**0.41 J**	**0.22 JI**	0.20 U	**0.21 J**	**0.22 J**	**0.71 I**	**0.69**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-21753-10	11/18/2020	0.83 U	**1.2**	**0.71**	**0.54 J**	**0.42 J**	**0.65 I**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-5-S	0-1	410-36925-24	4/20/2021	0.85 U	0.21 U	0.21 U	0.21 U	**0.634**	**0.67**	**0.26 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			1-2	410-36925-25	4/20/2021	0.85 U	**0.52 J**	**0.54 J**	**0.62 J**	**0.66 J**	**0.23 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-6-S	0-1	410-36925-22	4/20/2021	0.79 U	**0.40 J**	**0.41 J**	**0.26 J**	**0.594**	**0.30 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-36925-23	4/20/2021	0.84 U	**0.25 J**	**0.22 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-7-S	0-1	410-36925-20	4/20/2021	0.82 U	**1.4**	**0.72**	**0.58 J**	**0.624**	**0.49 J**	**1.0**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			1-2	410-36925-21	4/20/2021	0.82 U	**0.20 J**	0.20 U	0.20 U	0.20 U	**0.37 J**	**0.47 J**	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-8-S	0-1	410-36920-5	4/19/2021	0.79 U	**0.23 J**	0.20 U	0.20 U	**0.31 J**	**0.27 J**	**1.3**	**2.6**	**0.91**	**0.37 J**	0.20 U	0.20 U	0.20 U
			1-2	410-36920-6	4/19/2021	0.81 U	0.20 U	0.20 U	0.20 U	**0.43 J**	**1.4**	**1.8**	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-9-S	0-1	410-36920-7	4/19/2021	0.79 U	**0.48 J**	**0.594**	**0.31 J**	**0.32 J**	0.20 U	**0.44 J**	**1.7**	**2.2**	**1.4**	**0.44 J**	0.20 U	0.20 U
			1-2	410-36920-8	4/19/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.38 J**	**3.7**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-10-S	0-1	410-36920-9	4/19/2021	0.78 U	0.19 U	0.19 U	0.19 U	**0.19 J**	0.19 U	0.19 U	**0.55 J**	**0.87**	**1.3**	0.19 U	0.19 U	0.19 U
			1-2	410-36920-10	4/19/2021	0.78 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.48 J**	**0.35 J**	0.20 U	0.20 U	0.20 U
		RW6-11-S	0-1	410-36920-11	4/19/2021	0.77 U	**0.23 J**	0.19 U	0.19 U	0.19 U	**0.37 J**	**2.5**	**2.5**	**0.38 J**	0.19 U	0.19 U	0.19 U	0.19 U
			1-2	410-36920-12	4/19/2021	0.79 U	0.20 U	0.20 U	0.20 U	**0.41 J**	**0.82**	**5.9**	**0.54 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-12-S	0-1	410-36920-13	4/19/2021	**1.4 J**	**2.6 J**	**1.8 J**	**1.5**	**2.2**	**1.2**	**1.7**	**6.8**	**2.4 J**	**3.0 J**	**0.5 J**	0.22 U	0.22 U
			0-1 (DUP)	410-36920-14	4/19/2021	**0.86 J**	**1.1 J**	**0.81 J**	**0.95**	**1.3**	**0.74**	**1.2**	**4.6**	**1.0 J**	**0.84 J**	0.22 U	0.22 U	0.22 U
			1-2	410-36920-15	4/19/2021	0.81 U	0.20 U	0.20 U	0.20 U	**0.23 J**	**0.22 J**	**0.88**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-13-S	0-1	410-36920-16	4/19/2021	0.81 U	**0.23 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.40 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-36920-17	4/19/2021	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-14-S	0-1	410-36920-18	4/19/2021	0.81 U	**0.60 J**	**1.7 J**	**0.45 J**	**0.84**	0.2 U	**2.5**	**2.5**	**3.4**	**2.6**	**0.98**	0.2 U	0.2 U
			1-2	410-36920-19	4/19/2021	0.81 U	0.27 J	0.20 U	**0.21 J**	**0.43 J**	**0.89**	**2.1**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-15-S	0-1	410-36920-20	4/19/2021	0.78 U	**0.23 J**	0.2 U	0.2 U	**0.36 J**	0.2 U	**0.35 J**	**1.2**	**0.35 JI**	**0.52 J**	0.2 U	0.2 U	0.2 U
			1-2	410-36920-21	4/19/2021	0.86 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.61 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-16-S	0-1	410-36920-22	4/19/2021	0.82 U	0.21 U	**0.524**	0.21 U	0.21 U	0.21 U	0.21 U	**0.73**	0.21 U	**0.33 J**	0.21 U	0.21 U	0.21 U
			1-2	410-36920-23	4/19/2021	0.84 U	**0.37 J**	**1.1 J**	0.21 U	**0.34 J**	**0.23 J**	0.21 U	**0.40 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-17-S	0-1	410-36920-25	4/20/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.94**	0.20 U	**0.29 J**	0.20 U	0.20 U	0.20 U
			1-2	410-36920-26	4/20/2021	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		RW6-18-S	0-1	410-36920-27	4/20/2021	**0.81 J**	**1.0**	**0.52 J**	**0.54 J**	**0.59 J**	**1.0**	**2.9**	**7.2**	**0.46 J**	**0.23 J**	0.20 U	0.20 U	0.20 U
			1-2	410-36920-28	4/20/2021	0.81 U	0.20 U	0.20 U	0.20 U	**0.48 J**	**1.3**	**2.2**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-19-S	0-1	410-36920-29	4/20/2021	0.84 U	**0.55 J**	**0.44 J**	**0.76**	**1.1**	**0.64**	**1.1**	**2.8**	**0.23 J**	**0.97**	0.21 U	0.21 U	0.21 U
			1-2	410-36920-30	4/20/2021	0.84 U	0.21 U	0.21 U	0.21 U	**0.33 J**	**0.47 J**	**0.31 JI**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-20-S	0-1	410-36920-31	4/20/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			1-2	410-36920-32	4/20/2021	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		RW6-21-S	0-1	410-36925-1	4/20/2021	0.83 U	**1.4**	**1.3**	**1.2**	**0.78 J**	**1.0**	**0.68**	**2.9**	0.21 U	**1.1**	0.21 U	0.21 U	0.21 U
			1-2	410-36925-2	4/20/2021	0.77 U	**0.24 J**	**0.27 J**	**0.31 J**	**0.584**	**0.74**	**0.61**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		RW6-22-S	0-1	410-36925-3	4/20/2021	0.78 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
			1-2	410-36925-4	4/20/2021	0.75 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		RW6-23-S	0-1	410-36925-5	4/20/2021	0.85 U	**0.82**	**0.47 J**	**0.44 J**	**0.644**	**0.48 J**	**0.74**	**0.44 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			1-2	410-36925-6	4/20/2021	0.83 U	**0.84**	**0.48 J**	**0.46 J**	**0.624**	**0.66**	**0.44 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-24-S	0-1	410-36925-7	4/20/2021	0.88 U	**1.3**	**0.96**	**0.91**	**1.1 J**	**1.6**	**0.67**	**3.3**	0.22 U	**1.6**	0.22 U	0.22 U	0.22 U
			1-2	410-36925-8	4/20/2021	0.87 U	**0.79**	**0.76**	**0.6 J**	**0.85 J**	**2.1**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		RW6-25-S	0-1	410-36925-9	4/20/2021	0.78 U	0.20 U	0.20 U	0.20 U	**0.594**	**0.37 J**	**0.27 J**	**1.6**	0.20 U	**0.43 J**	0.20 U	0.20 U	0.20 U
			1-2	410-36925-10	4/20/2021	0.84 U	0.21 U	0.21 U	0.21 U	**0.634**	**0.52 J**	0.21 U	**0.57 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-26-S	0-1	410-36925-11	4/20/2021	0.85 U	**0.27 J**	0.21 U	0.21 U	0.21 U	0.21 U	**0.21 J**	**0.27 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			0-1 (DUP)	410-36925-12	4/20/2021	0.80 U	**0.26 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.29 J**	**0.29 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-36925-13	4/20/2021	0.77 U	**0.27 J**	**0.19 J**	**0.22 J**	**0.584**	**0.21 J**	**0.40 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		RW6-27-S	0-1	410-36925-14	4/20/2021	0.81 U	**0.78**	**0.72**	**0.58 J**	**0.70 J**	**0.27 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-36925-15	4/20/2021	0.88 U	0.22 U	**0.26 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		RW6-28-S	0-1	410-36925-16	4/20/2021	0.82 U	**0.54 J**	**0.35 J**	**0.44 J**	**0.624**	**0.57 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			1-2	410-36925-17	4/20/2021	0.85 U	**0.25 J**	**0.3 J**	**0.27 J**	**0.644**	**0.49 J**	**0.22 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-29-S	0-1	410-36925-18	4/20/2021	0.81 U	**0.32 J**	**0.23 J**	**0.23 J**	**0.604**	**0.62**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-36925-19	4/20/2021	0.82 U	**1.3**	**0.95**	**0.76**	**0.624**	**0.21 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		RW6-30-S	0-1	410-37217-14	4/20/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-37217-15	4/20/2021	0.81 U	0.20 U	0.20 U	0.20 U	**0.30 JI**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW6-31-S	0-1	410-37217-12	4/20/2021	0.82 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			1-2	410-37217-13	4/20/2021	0.86 U	**0.29 J**	0.21 U	**0.21 J**	**0.26 J**	**0.25 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U

Subgroup: Sulfonic Acids / Sulfonamides

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Perfluorobutanesulfonic acid PFBS [4S]	Perfluoropentanesulfonate PFPeS [5S]	Perfluorohexanesulfonic acid PFHxS [6S]	Perfluorooctanesulfonic acid PFOS [8S]	Perfluoroheptanesulfonic acid PFHpS [7S]	Perfluorononanesulfonic acid PFNS [9S]	Perfluorodecanesulfonic acid PFDS [10S]	Perfluorododecanesulfonic acid PFDoS [12S]	Perfluorooctane-sulfonamide PFOSA
		CAS No.	375-73-5	2706-91-4	355-46-4	1763-23-1	375-92-8	68259-12-1	335-77-3	79780-39-5	754-91-6
		S-1/GW-1 (ng/g)	na	na	0.30	2.0	na	na	na	na	na
		S-1/GW-3 (ng/g)	na	na	300	300	na	na	na	na	na
		S-2/S-3/GW-3 (ng/g)	na	na	400	400	na	na	na	na	na
SB-1	0-1	410-13916-2	2.1 U	0.62 U	0.62 U	**2.2**	0.62 U	0.62 U	0.62 U	2.1 U	0.62 U
	1-2	410-13916-3	2.0 U	0.60 U	0.60 U	**1.4**	0.60 U	0.60 U	0.60 U	2.0 U	0.60 U
SRB-01-S	13-15	410-21749-21	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	32-34	410-21749-22	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SRB-05-S	0-1	410-37210-12	0.42 U	0.21 U	0.21 U	**3.6**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	0-1 (DUP)	410-37210-13	0.41 U	0.20 U	0.20 U	**3.5**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37210-14	0.40 U	0.20 U	0.20 U	**5.7 I**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SRB-06-S	0-1	410-37210-15	0.40 U	**0.28 J**	**9.8**	**330**	**1.1**	**2.8**	0.20 U	0.20 U	**4.7**
	1-2	410-37210-16	0.38 U	0.19 U	**3.2**	**1400**	0.19 U	**4.5 I**	0.19 U	0.19 U	0.19 UJ
	1-2 (DUP)	410-37210-17	0.41 U	0.20 U	**8.3**	**710**	**0.95**	**0.84**	0.20 U	0.20 U	**1.0 J**
SRB-07-S	0-1	410-37210-10	0.39 U	0.20 U	0.20 U	**0.57 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37210-11	0.44 U	0.22 U	0.22 U	**18**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
SRB-08-S	3-4	410-40917-3	0.39 U	0.20 U	**5.7**	**1300**	**4.1**	**2.1 I**	0.20 U	0.20 U	0.20 U
	12-13	410-40917-4	0.38 U	0.19 U	**13**	**82**	**2.0**	0.19 U	0.19 U	0.19 U	0.19 U
	31-32	410-40917-5	0.44 U	0.22 U	**8.4**	**75**	**2.1**	0.22 U	0.22 U	0.22 U	0.22 U
SB-2	0-1	410-13916-4	2.2 U	0.65 U	0.65 U	**1.6**	0.65 U	0.65 U	0.65 U	2.2 U	0.65 U
	0-1 (DUP)	410-13916-5	2.2 U	0.66 U	0.66 U	**1.4**	0.66 U	0.66 U	0.66 U	2.2 U	0.66 U
	1-2	410-13916-6	2.1 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	2.1 U	0.62 U
SB-3	0-1	410-13916-7	2.1 U	0.64 U	0.64 U	**1.3**	0.64 U	0.64 U	0.64 U	2.1 U	0.64 U
	1-2	410-13916-8	1.9 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	1.9 U	0.57 U
SB-4	0-1	410-13916-9	2.0 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	2.0 U	0.61 U
	1-2	410-13916-10	2.0 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	2.0 U	0.59 U
RW6-01-S	0-1	410-21753-1	**6.1**	**6.5**	**30**	**220**	**3.6**	**0.51 J**	**3.2**	**4.4**	**3.2**
	1-2	410-21753-2	0.43 U	0.22 U	**0.71**	**8.5**	0.22 U	**0.53 J**	**3.4**	0.22 U	**5.7**
RW6-02-S	0-1	410-21753-3	0.42 U	**0.51 J**	**4.8**	**43**	**0.51 J**	**0.43 J**	**1.5**	0.21 U	**2.1**
	0-1 (DUP)	410-21753-4	**0.47 J**	**0.72**	**8.7**	**80**	**0.93**	**0.53 J**	**1.6**	0.21 U	**2.2**
	1-2	410-21753-5	0.42 U	0.21 U	**1.5**	**23**	0.21 U	**2.1**	**0.3 JI**	0.21 U	**1.6**
RW6-03-S	0-2	410-21753-6	0.41 U	0.21 U	0.21 U	**1.2**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	11-13	410-21753-7	0.41 U	0.21 U	0.21 U	**0.25 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	13-15	410-21753-8	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-04-S	0-1	410-21753-9	0.40 U	0.20 U	**0.20 J**	**3.3**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-21753-10	0.41 U	0.21 U	0.21 U	**6.1**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-5-S	0-1	410-36925-24	0.42 U	0.21 U	0.21 U	**2.6**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-36925-25	0.43 U	0.21 U	0.21 U	**3.9**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-6-S	0-1	410-36925-22	0.39 U	0.20 U	0.20 U	**3.2**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-23	0.42 U	0.21 U	0.21 U	**1.2**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-7-S	0-1	410-36925-20	0.41 U	0.21 U	0.21 U	**4.2**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-36925-21	0.41 U	0.20 U	0.20 U	**2.3**	0.20 U	**0.22 J**	0.20 U	0.20 U	0.20 U
RW6-8-S	0-1	410-36920-5	0.40 U	0.20 U	0.20 U	**2.1**	0.20 U	0.20 U	**0.39 J**	0.20 U	0.20 U
	1-2	410-36920-6	0.40 U	0.20 U	0.20 U	**5.2**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-9-S	0-1	410-36920-7	**0.40 J**	**0.45 J**	**2.8**	**32**	**0.27 J**	0.20 U	**0.62**	**1.1 J**	**0.64**
	1-2	410-36920-8	0.40 U	0.20 U	0.20 U	**0.71**	0.20 U	0.20 U	**1.5**	0.20 U	**2.2**
RW6-10-S	0-1	410-36920-9	0.39 U	0.19 U	0.19 U	**1.9**	0.19 U	0.19 U	0.19 U	**0.25 J**	0.19 U
	1-2	410-36920-10	0.39 U	0.20 U	0.20 U	**0.26 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-11-S	0-1	410-36920-11	0.38 U	0.19 U	0.19 U	**5.0**	0.19 U	**0.31 J**	0.19 U	**1.6 J**	**4.3**
	1-2	410-36920-12	0.40 U	0.20 U	0.20 U	**21**	0.20 U	**4.5**	**0.37 J**	0.20 U	**3.3**
RW6-12-S	0-1	410-36920-13	0.43 U	0.22 U	**1.4**	**16 J**	0.22 U	**0.27 J**	**0.99**	0.22 U	**0.38 J**
	0-1 (DUP)	410-36920-14	0.43 U	0.22 U	**0.67**	**7.7 J**	0.22 U	**0.50 J**	**0.41 J**	0.22 U	0.22 U
	1-2	410-36920-15	0.40 U	0.20 U	0.20 U	**2.3**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-13-S	0-1	410-36920-16	0.40 U	0.20 U	**0.29 J**	**5.4**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36920-17	0.40 U	0.20 U	0.2 U	**22**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-14-S	0-1	410-36920-18	**3.1**	**3.1**	**18**	**130**	**1.7**	**1.2**	**0.62**	**1.1 J**	**2.3**
	1-2	410-36920-19	0.40 U	0.20 U	0.20 U	**35**	0.20 U	**1.6**	0.20 U	0.20 U	**0.85**
RW6-15-S	0-1	410-36920-20	0.39 U	0.20 U	**0.28 J**	**2.4**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36920-21	0.43 U	0.21 U	0.21 U	**0.61 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-16-S	0-1	410-36920-22	0.41 U	0.21 U	**0.89**	**8.6**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-36920-23	0.42 U	0.21 U	**1.3**	**43**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-17-S	0-1	410-36920-25	0.40 U	0.20 U	**0.61**	**9.9**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36920-26	0.38 U	0.19 U	0.19 U	**9.9**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-18-S	0-1	410-36920-27	0.40 U	0.20 U	**0.96**	**16**	0.20 U	**1.9**	**1.0**	0.20 U	**3.3**
	1-2	410-36920-28	0.40 U	0.20 U	0.20 U	**11**	0.20 U	**0.96**	0.20 U	0.20 U	**0.24 J**
RW6-19-S	0-1	410-36920-29	0.42 U	0.21 U	**0.37 J**	**3.3**	0.21 U	**0.39 J**	0.21 U	0.21 U	0.21 U
	1-2	410-36920-30	0.42 U	0.21 U	0.21 U	**3.9**	0.21 U	**0.92 J**	0.21 U	0.21 U	0.21 U
RW6-20-S	0-1	410-36920-31	0.39 U	0.21 U	0.21 U	**4.5**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-36920-32	0.38 U	0.19 U	0.19 U	**4.2**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-21-S	0-1	410-36925-1	0.42 U	0.21 U	**1.1**	**20**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-36925-2	0.39 U	0.19 U	**0.23 J**	**18**	0.19 U	**0.72 I**	0.19 U	0.19 U	0.19 U
RW6-22-S	0-1	410-36925-3	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-36925-4	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-23-S	0-1	410-36925-5	0.43 U	0.21 U	**0.24 J**	**4.2**	0.21 U	**0.24 J**	0.21 U	0.21 U	0.21 U
	1-2	410-36925-6	0.41 U	0.21 U	**0.32 J**	**11**	0.21 U	**0.95 I**	0.21 U	0.21 U	0.21 U
RW6-24-S	0-1	410-36925-7	0.44 U	0.22 U	**1.9**	**51**	**0.23 J**	0.22 U	0.22 U	0.22 U	0.22 U
	1-2	410-36925-8	0.43 U	0.22 U	**0.87**	**150**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
RW6-25-S	0-1	410-36925-9	0.39 U	0.20 U	**0.74**	**20**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-10	0.42 U	0.21 U	**2.5**	**38**	**0.32 J**	0.21 U	0.21 U	0.21 U	0.21 U
RW6-26-S	0-1	410-36925-11	0.42 U	0.21 U	0.21 U	**1.4**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	0-1 (DUP)	410-36925-12	0.40 U	0.20 U	0.20 U	**1.5**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-13	0.39 U	0.19 U	0.19 U	**2.1**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-27-S	0-1	410-36925-14	0.41 U	0.20 U	**0.72**	**4.4**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-15	0.44 U	0.22 U	**2.7**	**0.42 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
RW6-28-S	0-1	410-36925-16	0.41 U	0.21 U	0.21 U	**2.0**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-36925-17	0.43 U	0.21 U	0.21 U	**1.9**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-29-S	0-1	410-36925-18	0.40 U	0.20 U	0.20 U	**0.98**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-19	0.41 U	0.21 U	0.21 U	**3.5**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-30-S	0-1	410-37217-14	0.40 U	0.20 U	0.20 U	**0.81**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37217-15	0.41 U	0.20 U	0.20 U	**0.49 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-31-S	0-1	410-37217-12	0.41 U	0.21 U	0.21 U	**0.48 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-37217-13	0.43 U	0.21 U	0.21 U	**2.3**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U

Subgroups: Perfluoroalkane Sulfonamido Substances (NEtFOSAA–NEtFOSA) / Precursors and Replacement Compounds (HFPODA–10:2 FTS)

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2-Fluorotelomersulfonic acid 4:2 FTS	6:2-Fluorotelomersulfonic acid 6:2 FTS	8:2-Fluorotelomersulfonic acid 8:2 FTS	10:2 Fluorotelomersulfonic acid 10:2 FTS
		CAS No.	2991-50-6	2355-31-9	24448-09-7	31506-32-8	1691-99-2	4151-50-2	13252-13-6	919005-14-4	756426-58-1	763051-92-9	757124-72-4	27619-97-2	39108-34-4	120226-60-0
		S-1/GW-1 (ng/g)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
		S-1/GW-3 (ng/g)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
		S-2/S-3/GW-3 (ng/g)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SB-1	0-1	410-13916-2	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	3.1 U	2.1 U	0.62 U	2.1 U	2.1 U	3.1 U	2.1 U
	1-2	410-13916-3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	3.0 U	2.0 U	0.60 U	2.0 U	2.0 U	3.0 U	2.0 U
SRB-01-S	13-15	410-21749-21	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	32-34	410-21749-22	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
SRB-05-S	0-1	410-37210-12	0.21 UJ	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	0-1 (DUP)	410-37210-13	0.20 U	0.20 UJ	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	1-2	410-37210-14	0.20 UJ	0.20 UJ	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
SRB-06-S	0-1	410-37210-15	0.20 UJ	0.20 UJ	0.49 U	0.49 U	0.49 U	0.49 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	1-2	410-37210-16	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	1-2 (DUP)	410-37210-17	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
SRB-07-S	0-1	410-37210-10	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	1-2	410-37210-11	0.22 U	0.22 UJ	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
SRB-08-S	3-4	410-40917-3	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	**0.98 J**	0.59 U	0.59 U
	12-13	410-40917-4	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
	31-32	410-40917-5	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
SB-2	0-1	410-13916-4	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	3.2 U	2.2 U	0.65 U	2.2 U	2.2 U	3.2 U	2.2 U
	0-1 (DUP)	410-13916-5	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	3.3 U	2.2 U	0.66 U	2.2 U	2.2 U	3.3 U	2.2 U
	1-2	410-13916-6	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	3.1 U	2.1 U	0.62 U	2.1 U	2.1 U	3.1 U	2.1 U
SB-3	0-1	410-13916-7	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	3.2 U	2.1 U	0.64 U	2.1 U	2.1 U	3.2 U	2.1 U
	1-2	410-13916-8	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.9 U	1.9 U	0.57 U	1.9 U	1.9 U	2.9 U	1.9 U
SB-4	0-1	410-13916-9	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	3.1 U	2.0 U	0.61 U	2.0 U	2.0 U	3.1 U	2.0 U
	1-2	410-13916-10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.9 U	2.0 U	0.59 U	2.0 U	2.0 U	2.9 U	2.0 U
RW6-01-S	0-1	410-21753-1	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	**13**	**2.3 J**	**6.9**
	1-2	410-21753-2	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	**1.0 J**	0.65 U
RW6-02-S	0-1	410-21753-3	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	**1.3 J**	**1.8 J**	**1.2 J**
	0-1 (DUP)	410-21753-4	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	**1.4 J**	**2.1 J**	**1.8 J**
	1-2	410-21753-5	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW6-03-S	0-2	410-21753-6	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	11-13	410-21753-7	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	13-15	410-21753-8	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
RW6-04-S	0-1	410-21753-9	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-21753-10	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW6-5-S	0-1	410-36925-24	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
	1-2	410-36925-25	0.21 UJ	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW6-6-S	0-1	410-36925-22	0.20 UJ	0.20 UJ	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	1-2	410-36925-23	0.21 U	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
RW6-7-S	0-1	410-36925-20	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-36925-21	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-8-S	0-1	410-36920-5	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	**0.66 J**
	1-2	410-36920-6	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-9-S	0-1	410-36920-7	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	**1.3 J**	**0.63 J**	**2.5**
	1-2	410-36920-8	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
RW6-10-S	0-1	410-36920-9	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	**0.89 J**
	1-2	410-36920-10	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
RW6-11-S	0-1	410-36920-11	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	**1.1 J**	**1.8 J**
	1-2	410-36920-12	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.40 U	0.20 U	0.2 U	0.20 U	0.59 U	0.59 U	**4.9**	**1.8 J**
RW6-12-S	0-1	410-36920-13	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	**1.4 J**
	0-1 (DUP)	410-36920-14	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
	1-2	410-36920-15	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-13-S	0-1	410-36920-16	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	1-2	410-36920-17	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
RW6-14-S	0-1	410-36920-18	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	**6.9**	**2.1 J**	**4.0**
	1-2	410-36920-19	0.2 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	**4.9**	0.6 U
RW6-15-S	0-1	410-36920-20	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	1-2	410-36920-21	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW6-16-S	0-1	410-36920-22	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-36920-23	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
RW6-17-S	0-1	410-36920-25	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	1-2	410-36920-26	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
RW6-18-S	0-1	410-36920-27	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	**0.71 J**	0.6 U
	1-2	410-36920-28	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-19-S	0-1	410-36920-29	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
	1-2	410-36920-30	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
RW6-20-S	0-1	410-36920-31	0.21 UJ	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-36920-32	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
RW6-21-S	0-1	410-36925-1	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-36925-2	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
RW6-22-S	0-1	410-36925-3	0.19 U	0.19 UJ	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	1-2	410-36925-4	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
RW6-23-S	0-1	410-36925-5	0.21 U	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
	1-2	410-36925-6	0.21 U	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW6-24-S	0-1	410-36925-7	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
	1-2	410-36925-8	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
RW6-25-S	0-1	410-36925-9	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	1-2	410-36925-10	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
RW6-26-S	0-1	410-36925-11	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
	0-1 (DUP)	410-36925-12	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-36925-13	0.19 U	0.19 UJ	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
RW6-27-S	0-1	410-36925-14	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	1-2	410-36925-15	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
RW6-28-S	0-1	410-36925-16	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-36925-17	0.21 U	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW6-29-S	0-1	410-36925-18	0.20 U	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-36925-19	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW6-30-S	0-1	410-37217-14	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-37217-15	0.20 U	0.20 UJ	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-31-S	0-1	410-37217-12	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-37217-13	0.21 UJ	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U

Table 3
Summary of PFAS in Soil
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

AFFF APPLICATION AREAS — Runway 6 Runup

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled	PFBA [4]	PFPeA [5]	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFHxDA [16]	PFODA [18]
Subgroup				Carboxylic Acids												
Analyte				Perfluorobutanoic acid	Perfluoropentanoic acid	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorohexadecanoic acid	Perfluorooctadecanoic acid
CAS No.				375-22-4	2706-90-3	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	67905-19-5	16517-11-6
S-1/GW-1 (ng/g)				na	na	na	0.50	0.72	0.32	0.30	na	na	na	na	na	na
S-1/GW-3 (ng/g)				na	na	na	300	300	300	300	na	na	na	na	na	na
S-2/S-3/GW-3 (ng/g)				na	na	na	400	400	400	400	na	na	na	na	na	na
RW6-32-S	0-1	410-37217-10	4/20/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	**0.22 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-37217-11	4/20/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-33-S	0-1	410-37217-7	4/20/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.50 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	0-1 (DUP)	410-37217-8	4/20/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.44 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37217-9	4/20/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-34-S	0-1	410-37217-5	4/20/2021	0.84 U	0.21 U	0.21 U	0.21 U	**0.39 J**	**0.26 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-37217-6	4/20/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-35-S	0-1	410-37217-3	4/20/2021	0.81 U	**0.25 J**	0.20 U	0.20 U	**0.36 J**	**0.47 J**	**0.40 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37217-4	4/20/2021	0.75 U	0.19 U	0.19 U	0.19 U	**0.20 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-36-S	0-1	410-37217-1	4/20/2021	**2.4**	**5.8**	**2.2**	**3.5**	**2.7**	**4.5**	**1.2**	**0.30 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-37217-2	4/20/2021	**1.5 J**	**3.8**	**1.9**	**3.4**	**1.9**	**0.60 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-37-S	0-1	410-36925-32	4/20/2021	0.83 U	**0.50 J**	**0.23 J**	**0.56 J**	**1.0 J**	**1.8**	**1.3**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-36925-33	4/20/2021	0.76 U	0.19 U	0.19 U	0.19 U	**0.574**	**0.34 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-38-S	0-1	410-36925-30	4/20/2021	0.81 U	**0.38 J**	0.20 U	**0.39 J**	**0.70 J**	**0.91**	**0.51 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-31	4/20/2021	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-39-S	0-1	410-36925-28	4/20/2021	0.80 U	**0.46 J**	**0.33 J**	**0.26 J**	**0.604**	**0.21 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-29	4/20/2021	0.82 U	**0.87**	**0.74**	**0.50 J**	**0.614**	**0.25 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-40-S	0-1	410-36925-26	4/20/2021	0.80 U	**0.28 J**	**0.26 J**	**0.24 J**	**0.604**	**0.46 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-27	4/20/2021	0.83 U	**1.7**	**0.92**	**0.72**	**0.70 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-41-S	0-1	410-37210-6	4/22/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-37210-7	4/22/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-42-S	0-1	410-37210-4	4/22/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-37210-5	4/22/2021	0.78 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-43-S	0-1	410-37219-27	4/22/2021	0.78 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37219-28	4/22/2021	0.82 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-44-S	0-1	410-37210-1	4/22/2021	0.78 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37210-2	4/22/2021	0.89 U	0.22 U	0.22 U	0.22 U	**0.40 J**	**0.59 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	1-2 (DUP)	410-37210-3	4/22/2021	0.81 U	0.20 U	0.20 U	0.20 U	**0.48 J**	**0.54 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-45-S	0-1	410-37219-25	4/22/2021	0.84 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.25 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-37219-26	4/22/2021	0.82 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-46-S	0-1	410-37219-23	4/22/2021	0.83 U	0.21 U	0.21 U	0.21 U	**0.22 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-37219-24	4/22/2021	0.83 U	**0.75**	**0.91**	**0.84**	**0.72**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-47-S	3-4	410-40917-24	5/18/2021	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**2.8**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	10-11	410-40917-25	5/18/2021	0.82 U	0.21 U	0.21 U	0.21 U	**0.68**	**0.52 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	13-14	410-40917-26	5/18/2021	0.81 U	0.20 U	0.20 U	0.20 U	**0.45 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-48-S	3-4	410-40917-28	5/18/2021	0.78 U	0.20 U	0.20 U	0.20 U	**1.7**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	7-8	410-40917-29	5/18/2021	0.80 U	0.20 U	0.20 U	**0.26 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	13-14	410-40917-30	5/18/2021	0.83 U	0.21 U	0.21 U	**0.24 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-49-S	3-4	410-40916-1	5/19/2021	0.8 U	**0.37 J**	**0.31 JI**	**0.49 J**	**0.89 I**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	5-6	410-40916-2	5/19/2021	0.77 U	0.19 U	**0.33 J**	**2.4**	**0.76**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	8-9	410-40916-3	5/19/2021	0.79 U	**0.23 J**	**0.27 J**	**1.0**	**1.3**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-50-S	0-1	410-40916-4	5/19/2021	0.82 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40916-5	5/19/2021	0.85 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-51-S	0-1	410-40916-6	5/19/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40916-7	5/19/2021	0.81 U	0.20 U	0.20 U	0.20 U	**0.41 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-52-S	0-1	410-40916-8	5/19/2021	0.84 U	**0.68**	**0.32 J**	**0.29 J**	**0.78**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40916-9	5/19/2021	0.85 U	**0.24 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-53-S	0-1	410-40916-10	5/19/2021	0.86 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40916-11	5/19/2021	0.80 U	0.20 U	0.20 U	0.20 U	**0.36 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-54-S	0-1	410-40916-12	5/19/2021	0.83 U	0.21 U	0.21 U	0.21 U	**0.49 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40916-13	5/19/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-55-S	0-1	410-40916-14	5/19/2021	0.79 U	0.20 U	**0.25 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40916-15	5/19/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.20 J**	0.20 U
	1-2 (DUP)	410-40916-16	5/19/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-56-S	0-1	410-40916-17	5/19/2021	0.85 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.27 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40916-18	5/19/2021	0.84 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-57-S	0-1	410-40916-19	5/19/2021	0.77 U	**0.25 J**	0.19 U	0.19 U	0.19 U	**0.20 J**	**0.34 J**	**0.22 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-40916-20	5/19/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-58-S	0-1	410-40916-21	5/19/2021	0.78 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	**0.72**	**0.34 J**	**0.70**	0.19 U	0.19 U	0.19 U
	1-2	410-40916-22	5/19/2021	0.85 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.29 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-59-S	3-4	410-40916-23	5/19/2021	0.84 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	7-8	410-40916-24	5/19/2021	0.76 U	0.19 U	0.19 U	0.19 U	**1.6**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	12-13	410-40916-25	5/19/2021	0.77 U	0.19 U	0.19 U	0.19 U	**0.52 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-60-S	1-2	410-40918-19	5/21/2021	0.75 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	**0.50 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	4-5	410-40918-20	5/21/2021	0.75 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	**0.43 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	8-9	410-40918-21	5/21/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-61-S	0-1	410-40918-22	5/21/2021	0.78 U	0.20 U	0.20 U	0.20 U	**0.41 J**	0.20 U	**0.39 J**	**1.5**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	5-6	410-40918-23	5/21/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	9-10	410-40918-24	5/21/2021	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	**0.21 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-62-S	0-1	410-40918-25	5/21/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.90**	0.20 U	**0.36 J**	0.20 U	0.20 U	0.20 U
	0-1 (DUP)	410-40918-26	5/21/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.56 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40918-27	5/21/2021	0.86 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
RW6-63-S	0-1	410-40918-28	5/21/2021	0.87 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40918-29	5/21/2021	0.85 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-64-S	1-2	410-40918-30	5/21/2021	0.82 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	9-10	410-40918-31	5/21/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	17-18	410-40918-32	5/21/2021	0.82 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-65-S	0-1	410-40918-33	5/21/2021	0.79 U	0.20 U	**0.25 J**	**0.23 J**	**0.50 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40918-34	5/21/2021	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	PFBS [4S]	PFPeS [5S]	PFHxS [6S]	PFOS [8S]	PFHpS [7S]	PFNS [9S]	PFDS [10S]	PFDoS [12S]	PFOSA
Subgroup			Sulfonic Acids / Sulfonamides								
Analyte			Perfluorobutanesulfonic acid	Perfluoropentanesulfonate	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	Perfluoroheptanesulfonic acid	Perfluorononanesulfonic acid	Perfluorodecanesulfonic acid	Perfluorododecanesulfonic acid	Perfluorooctane-sulfonamide
CAS No.			375-73-5	2706-91-4	355-46-4	1763-23-1	375-92-8	68259-12-1	335-77-3	79780-39-5	754-91-6
S-1/GW-1 (ng/g)			na	na	0.30	2.0	na	na	na	na	na
S-1/GW-3 (ng/g)			na	na	300	300	na	na	na	na	na
S-2/S-3/GW-3 (ng/g)			na	na	400	400	na	na	na	na	na
RW6-32-S	0-1	410-37217-10	0.38 U	0.19 U	0.19 U	**0.62**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-37217-11	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-33-S	0-1	410-37217-7	0.4 U	0.20 U	0.20 U	**1.0**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	0-1 (DUP)	410-37217-8	0.40 U	0.20 U	0.2 U	**1.4**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37217-9	0.38 U	0.19 U	0.19 U	**0.98**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-34-S	0-1	410-37217-5	0.42 U	0.21 U	0.21 U	**4.1**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-37217-6	0.42 U	0.21 U	0.21 U	**1.2**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-35-S	0-1	410-37217-3	0.41 U	0.20 U	**0.22 J**	**4.0**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37217-4	0.38 U	0.19 U	0.19 U	**0.24 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-36-S	0-1	410-37217-1	0.43 U	0.21 U	0.21 U	**3.4**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-37217-2	0.42 U	0.21 U	0.21 U	**1.2**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-37-S	0-1	410-36925-32	0.41 U	0.21 U	0.21 U	**2.4**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-36925-33	0.38 U	0.19 U	0.19 U	**0.36 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-38-S	0-1	410-36925-30	0.40 U	0.20 U	0.20 U	**1.8**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-31	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-39-S	0-1	410-36925-28	0.40 U	0.20 U	0.20 U	**1.2**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-29	0.41 U	0.20 U	0.20 U	**0.84**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-40-S	0-1	410-36925-26	0.40 U	0.20 U	0.20 U	**3.5**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-36925-27	0.41 U	0.21 U	0.21 U	**5.5**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-41-S	0-1	410-37210-6	0.38 U	0.19 U	0.19 U	**0.33 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-37210-7	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-42-S	0-1	410-37210-4	0.39 U	0.19 U	0.19 U	**0.62 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-37210-5	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-43-S	0-1	410-37219-27	0.39 U	0.20 U	0.20 U	**1.3**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37219-28	0.41 U	0.21 U	0.21 U	**0.23 JI**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-44-S	0-1	410-37210-1	0.39 U	0.20 U	0.2 U	**1.8**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37210-2	0.45 U	0.22 U	**0.35 J**	**84**	**1.0**	0.22 U	0.22 U	0.22 U	0.22 U
	1-2 (DUP)	410-37210-3	0.40 U	0.20 U	**0.40 J**	**77**	**1.2**	0.20 U	0.20 U	0.20 U	0.20 U
RW6-45-S	0-1	410-37219-25	0.42 U	0.21 U	0.21 U	**0.23 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-37219-26	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-46-S	0-1	410-37219-23	**4.7**	0.21 U	**0.31 J**	**1.7**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-37219-24	0.41 U	0.21 U	**2.6**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-47-S	3-4	410-40917-24	0.39 U	0.20 U	0.20 U	**2.1**	0.20 U	**1.5**	0.20 U	0.20 U	0.20 U
	10-11	410-40917-25	0.41 U	0.21 U	0.21 U	**180**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	13-14	410-40917-26	0.40 U	0.20 U	0.20 U	**66**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-48-S	3-4	410-40917-28	0.39 U	0.20 U	**0.65**	**1.6 J**	**2.2**	0.20 U	0.20 U	0.20 U	0.20 U
	7-8	410-40917-29	0.40 U	0.20 U	**1.6**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	13-14	410-40917-30	0.42 U	0.21 U	**0.36 J**	**12**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-49-S	3-4	410-40916-1	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	5-6	410-40916-2	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	8-9	410-40916-3	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-50-S	0-1	410-40916-4	0.41 U	0.20 U	0.20 U	**0.95**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40916-5	0.42 U	0.21 U	0.21 U	**0.38 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-51-S	0-1	410-40916-6	0.40 U	0.20 U	0.20 U	**1.1**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40916-7	0.41 U	0.20 U	0.20 U	**0.50 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-52-S	0-1	410-40916-8	0.42 U	0.21 U	0.21 U	**3.2**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40916-9	0.42 U	0.21 U	**0.50 J**	**0.36 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-53-S	0-1	410-40916-10	0.43 U	0.21 U	0.21 U	**0.44 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40916-11	0.40 U	0.20 U	0.20 U	**0.46 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-54-S	0-1	410-40916-12	0.42 U	0.21 U	0.21 U	**0.42 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40916-13	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-55-S	0-1	410-40916-14	0.39 U	0.20 U	0.20 U	**2.3**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40916-15	0.40 U	0.20 U	0.20 U	**1.9 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2 (DUP)	410-40916-16	0.38 U	0.19 U	0.19 U	**0.53 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-56-S	0-1	410-40916-17	0.42 U	0.21 U	0.21 U	**0.79**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40916-18	0.42 U	0.21 U	0.21 U	**0.68**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-57-S	0-1	410-40916-19	0.40 U	0.19 U	0.19 U	**0.62**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-40916-20	0.38 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-58-S	0-1	410-40916-21	0.39 U	0.19 U	**0.30 J**	**3.1**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-2	410-40916-22	0.43 U	0.21 U	0.21 U	**0.52 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-59-S	3-4	410-40916-23	0.42 U	0.21 U	**0.39 J**	**4.3**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	7-8	410-40916-24	0.38 U	0.19 U	**0.89**	**3.1 J**	**0.77**	0.19 U	0.19 U	0.19 U	0.19 U
	12-13	410-40916-25	0.39 U	0.19 U	**0.51 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-60-S	1-2	410-40918-19	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	4-5	410-40918-20	0.38 U	0.19 U	0.19 U	**0.22 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	8-9	410-40918-21	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
RW6-61-S	0-1	410-40918-22	0.39 U	0.20 U	0.20 U	**0.95**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	5-6	410-40918-23	0.38 U	0.19 U	0.19 U	**0.28 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	9-10	410-40918-24	0.38 U	0.19 U	0.19 U	**0.51 J**	0.19 U	**0.24 J**	0.19 U	0.19 U	0.19 U
RW6-62-S	0-1	410-40918-25	0.40 U	0.20 U	**0.52 J**	**13**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	0-1 (DUP)	410-40918-26	0.40 U	0.20 U	**0.95**	**13**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40918-27	0.44 U	0.22 U	**4.7**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
RW6-63-S	0-1	410-40918-28	0.44 U	0.21 U	**0.28 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-40918-29	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
RW6-64-S	1-2	410-40918-30	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	9-10	410-40918-31	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	17-18	410-40918-32	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-65-S	0-1	410-40918-33	0.39 U	0.20 U	**0.32 J**	**0.93**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-40918-34	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2 FTS	6:2 FTS	8:2 FTS	10:2 FTS
Subgroup			Perfluoroalkane Sulfonamido Substances						Precursors and Replacement Compounds							
Analyte			NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2-Fluorotelomersulfonic acid	6:2-Fluorotelomersulfonic acid	8:2-Fluorotelomersulfonic acid	10:2 Fluorotelomersulfonic acid
CAS No.			2991-50-6	2355-31-9	24448-09-7	31506-32-8	1691-99-2	4151-50-2	13252-13-6	919005-14-4	756426-58-1	763051-92-9	757124-72-4	27619-97-2	39108-34-4	120226-60-0
S-1/GW-1 (ng/g)			na	na	na	na	na	na	na	na	na	na	na	na	na	na
S-1/GW-3 (ng/g)			na	na	na	na	na	na	na	na	na	na	na	na	na	na
S-2/S-3/GW-3 (ng/g)			na	na	na	na	na	na	na	na	na	na	na	na	na	na
RW6-32-S	0-1	410-37217-10	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	1-2	410-37217-11	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-33-S	0-1	410-37217-7	0.20 U	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.58 U	0.60 U
	0-1 (DUP)	410-37217-8	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	1-2	410-37217-9	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
RW6-34-S	0-1	410-37217-5	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
	1-2	410-37217-6	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW6-35-S	0-1	410-37217-3	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	1-2	410-37217-4	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.56 U	0.56 U	0.56 U	0.56 U
RW6-36-S	0-1	410-37217-1	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	**1.3 J**
	1-2	410-37217-2	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
RW6-37-S	0-1	410-36925-32	0.21 U	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-36925-33	0.19 U	0.19 UJ	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
RW6-38-S	0-1	410-36925-30	0.20 U	0.20 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-36925-31	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
RW6-39-S	0-1	410-36925-28	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-36925-29	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-40-S	0-1	410-36925-26	0.20 U	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-36925-27	0.21 U	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW6-41-S	0-1	410-37210-6	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	1-2	410-37210-7	0.20 UJ	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
RW6-42-S	0-1	410-37210-4	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	1-2	410-37210-5	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
RW6-43-S	0-1	410-37219-27	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	1-2	410-37219-28	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW6-44-S	0-1	410-37210-1	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	1-2	410-37210-2	0.22 U	0.22 U	0.56 U	0.56 U	0.56 U	0.56 U	0.45 U	0.22 U	0.22 U	0.22 U	0.67 U	0.67 U	0.67 U	0.67 U
	1-2 (DUP)	410-37210-3	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
RW6-45-S	0-1	410-37219-25	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
	1-2	410-37219-26	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW6-46-S	0-1	410-37219-23	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-37219-24	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW6-47-S	3-4	410-40917-24	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	**1.3 J**	0.59 U
	10-11	410-40917-25	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	**0.98 J**	0.62 U	0.62 U
	13-14	410-40917-26	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
RW6-48-S	3-4	410-40917-28	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	**0.95 J**	0.59 U	0.59 U
	7-8	410-40917-29	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	**4.1**	0.60 U	0.60 U
	13-14	410-40917-30	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
RW6-49-S	3-4	410-40916-1	0.20 UJ	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	5-6	410-40916-2	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	**2.0**	0.58 U	0.58 U
	8-9	410-40916-3	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	**0.67 J**	0.59 U	0.59 U
RW6-50-S	0-1	410-40916-4	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.2 U	0.2 U	0.2 U	0.61 U	0.61 U	0.61 U	0.61 U
	1-2	410-40916-5	0.21 U	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW6-51-S	0-1	410-40916-6	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-40916-7	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-52-S	0-1	410-40916-8	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
	1-2	410-40916-9	0.21 UJ	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW6-53-S	0-1	410-40916-10	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
	1-2	410-40916-11	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
RW6-54-S	0-1	410-40916-12	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-40916-13	0.20 UJ	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
RW6-55-S	0-1	410-40916-14	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	1-2	410-40916-15	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2 (DUP)	410-40916-16	0.19 U	0.19 UJ	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
RW6-56-S	0-1	410-40916-17	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
	1-2	410-40916-18	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
RW6-57-S	0-1	410-40916-19	0.19 U	0.19 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	1-2	410-40916-20	0.20 U	0.20 U	0.48 U	0.48 U	0.48 U	0.48 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-58-S	0-1	410-40916-21	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	1-2	410-40916-22	0.21 U	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW6-59-S	3-4	410-40916-23	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
	7-8	410-40916-24	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
	12-13	410-40916-25	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
RW6-60-S	1-2	410-40918-19	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.56 U	0.56 U	0.56 U	0.56 U
	4-5	410-40918-20	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
	8-9	410-40918-21	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
RW6-61-S	0-1	410-40918-22	0.20 UJ	0.20 UJ	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	5-6	410-40918-23	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	9-10	410-40918-24	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
RW6-62-S	0-1	410-40918-25	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	0-1 (DUP)	410-40918-26	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	1-2	410-40918-27	0.22 UJ	0.22 UJ	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
RW6-63-S	0-1	410-40918-28	0.21 UJ	0.21 UJ	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	1-2	410-40918-29	0.21 UJ	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW6-64-S	1-2	410-40918-30	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	9-10	410-40918-31	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	17-18	410-40918-32	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW6-65-S	0-1	410-40918-33	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	1-2	410-40918-34	0.19 UJ	0.19 UJ	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U

Table 3
Summary of PFAS in Soil
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

					Subgroup	Carboxylic Acids													Sulfonic Acids / Sulfonamides									Perfluoroalkane Sulfonamido Substances						Precursors and Replacement Compounds							
					Analyte	Perfluorobutanoic acid	Perfluoropentanoic acid	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorohexadecanoic acid	Perfluorooctadecanoic acid	Perfluorobutanesulfonic acid	Perfluoropentanesulfonate	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	Perfluoroheptanesulfonic acid	Perfluorononanesulfonic acid	Perfluorodecanesulfonic acid	Perfluorododecanesulfonic acid	Perfluorooctane-sulfonamide	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2-Fluorotelomersulfonic acid	6:2-Fluorotelomersulfonic acid	8:2-Fluorotelomersulfonic acid	10:2 Fluorotelomersulfonic acid
					Acronym	PFBA [4]	PFPeA [5]	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFHxDA [16]	PFODA [18]	PFBS [4S]	PFPeS [5S]	PFHxS [6S]	PFOS [8S]	PFHpS [7S]	PFNS [9S]	PFDS [10S]	PFDoS [12S]	PFOSA	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2 FTS	6:2 FTS	8:2 FTS	10:2 FTS
					CAS No.	375-22-4	2706-90-3	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	67905-19-5	16517-11-6	375-73-5	2706-91-4	355-46-4	1763-23-1	375-92-8	68259-12-1	335-77-3	79780-39-5	754-91-6	2991-50-6	2355-31-9	24448-09-7	31506-32-8	1691-99-2	4151-50-2	13252-13-6	919005-14-4	756426-58-1	763051-92-9	757124-72-4	27619-97-2	39108-34-4	120226-60-0
		Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	S-1/GW-1 (ng/g)	na	na	na	0.50	0.72	0.32	0.30	na	na	na	na	na	na	na	na	0.30	2.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
					S-1/GW-3 (ng/g)	na	na	na	300	300	300	300	na	na	na	na	na	na	na	na	300	300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
					S-2/S-3/GW-3 (ng/g)	na	na	na	400	400	400	400	na	na	na	na	na	na	na	na	400	400	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
					Date Sampled																																				
AFFF APPLICATION AREAS	South Ramp at J	SRJ-01-S	0-2	410-21753-11	11/18/2020	0.82 U	1.1	1.6	0.57 J	1.1	3.4	2.2	0.20 U	7.2	4.0	2.9	0.48 J	0.20 U	0.41 U	0.20 U	0.20 U	1.5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	130	65	140
			11-13	410-21753-12	11/18/2020	0.84 U	0.43 J	0.26 J	0.24 J	0.55 J	0.57 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.28 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	40	1.1 J	0.63 U
			18-20	410-21753-13	11/18/2020	0.79 U	0.50 J	0.31 J	0.25 J	0.59	0.61	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.31 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	42	1.3 J	0.59 U
		SRJ-02-S	0-1	410-21753-14	11/18/2020	0.79 U	0.35 J	0.20 U	0.26 J	0.31 J	0.20 U	0.76	0.50 J	0.20 J	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.35 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 J	2.1
			1-2	410-21753-15	11/18/2020	0.80 U	0.20 U	0.20 U	0.20 U	0.49 J	0.43 J	0.47 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	1.1	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.33 J	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
		SRJ-03-S	0-1	410-21753-16	11/18/2020	0.84 U	0.46 J	0.21 U	0.28 J	0.37 J	0.66	1.4	1.3	0.52 J	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.22 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.83 J
			1-2	410-21753-17	11/18/2020	0.84 U	0.47 J	0.50 J	0.50 J	0.56 JI	0.30 J	0.84	0.29 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.34 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	3.7	1.6 J	1.3 J
		SRJ-04-S	0-1	410-21753-18	11/18/2020	1.4 J	3.3	1.1	1.2	0.94	3.0	1.8	3.3	0.47 J	0.52 J	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	1.7	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.93 J	1.3 J	1.4 J
			1-2	410-21753-19	11/18/2020	0.81 U	1.1	0.38 J	0.54 J	0.44 J	1.8	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	6.3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
		SRJ-05-S	0-1	410-36792-3	4/19/2021	1.3 J	5.0	2.7 J	1.5	1.1	2.8	3.5	2.3	0.59 J	0.39 J	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.59 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	2.5	2.9 J	2.7
			1-2	410-36792-4	4/19/2021	0.79 U	0.99	0.594	0.66	0.25 J	0.20 U	0.27 J	2.9	0.20 U	1.2	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	1.1	0.20 U	0.20 U	0.20 U	0.20 U	0.20 J	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.2 U	0.2 U	0.2 U	0.59 U	0.59 U	0.59 U	0.59 U
		SRJ-06-S	0-1	410-36792-5	4/19/2021	0.85 U	1.8	0.89 J	1.2	1.3	3.6	0.99	0.41 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.38 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	2 J	0.63 U	0.63 U
			1-2	410-36792-6	4/19/2021	0.85 U	2.0	1.1 J	1.6	0.89	0.66	0.35 J	0.39 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	7.2	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	1.4 J	0.64 U	0.64 U
		SRJ-07-S	0-1	410-36792-7	4/19/2021	0.87 U	0.90	0.654	0.40 J	0.32 J	0.41 J	7.4	16.0	4.4	2.1	0.61 J	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	1.0 J	3.2	43
			1-2	410-36792-8	4/19/2021	0.86 U	0.70	0.654	0.46 J	0.56 J	1.2	8.4	6.6	1.4	0.74	0.27 J	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	1.2 J	7.3	20
		SRJ-08-S	0-1	410-36792-9	4/19/2021	0.92 J	1.2	0.664	0.71	1.1	2.9	2.0	1.3	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	1.4	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.72 J
			1-2	410-36792-10	4/19/2021	0.85 U	0.65	0.21 U	0.79	0.75	16	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.78 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
		SRJ-09-S	0-1	410-36792-11	4/19/2021	0.87 U	1.7	0.97 J	1.2	1.5	0.81	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	1.6	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.44 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
			1-2	410-36792-12	4/19/2021	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
		SRJ-10-S	0-1	410-36920-1	4/19/2021	1.4 J	1.8	1.1 J	1.1	1.7	0.96	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.23 J	8.7	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
			1-2	410-36920-2	4/19/2021	0.79 U	0.63	0.524	0.90	0.45 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.72	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
		SRJ-11-S	0-1	410-36920-3	4/19/2021	0.87 U	0.37 J	0.22 U	0.39 J	0.45 J	0.46 J	0.85	1.2	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	1.3	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.44 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
			1-2	410-36920-4	4/19/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 J	0.24 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.39 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
		SRJ-12-S	0-1	410-36792-13	4/19/2021	0.82 U	0.53 J	0.624	0.30 J	0.41 J	0.62	3.3	6.5	1.7	0.52 J	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	2.1	17	33
			1-2	410-36792-14	4/19/2021	0.79 U	0.33 J	0.20 U	0.20 J	0.32 J	0.24 J	1.3	2.2	0.78	0.42 J	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	2.1	10	33
		SRJ-13-S	0-1	410-36792-15	4/19/2021	0.80 U	1.3	0.89 J	0.76	0.97	1.2	5.7	13	9.6	5.7	2.7	0.28 J	0.20 U	0.40 U	0.20 U	0.20 J	1.9	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	14	23	110
			1-2	410-36792-16	4/19/2021	0.78 U	0.20 U	0.20 U	0.20 U	0.21 J	0.75	4.3	1.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.33 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	2.8	27	1.2 J
		SRJ-14-S	0-1	410-36792-17	4/19/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.1	1.9	0.77	0.28 J	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	3.8	9.2
			1-2	410-36792-18	4/19/2021	0.87 U	0.39 J	0.22 U	0.22 U	0.22 U	0.22 U	1.4	1.7	1.0	0.52 J	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	1.6	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.91 J	2.2 J	17
		SRJ-15-S	0-1	410-36792-19	4/19/2021	0.84 U	0.29 J	0.21 U	0.21 U	0.21 U	0.21 U	0.34 J	0.44 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	1.6 J	0.77 J	1 J
			1-2	410-36792-20	4/19/2021	0.78 U	0.20 U	0.20 U	0.20 U	0.85	1.8	0.45 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	3.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	8.9	0.65 J	0.59 U
		SRJ-16-S	0-1	410-36792-21	4/19/2021	0.80 U	0.71	0.604	0.31 J	0.28 J	0.39 J	0.82	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.84 J	0.6 U	0.85 J
			1-2	410-36792-22	4/19/2021	0.84 U	0.34 J	0.21 U	0.21 U	0.67	1.30	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	2.1	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.95 J	0.63 U	0.63 U
		SRJ-17-S	0-1	410-37217-21	4/21/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.26 J	0.22 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.26 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
			1-2	410-37217-22	4/21/2021	0.79 U	0.20 U	0.20 U	0.20 U	0.21 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.49 U	0.49 U	0.49 U	0.49 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
		SRJ-18-S	0-1	410-37217-17	4/21/2021	0.83 U	1.4	0.46 J	0.43 J	0.69	1.2	0.85	0.70	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	4.3	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
			1-2	410-37217-18	4/21/2021	0.99 J	1.7	1.2	1.6	1.4	0.95	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	5.1	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		SRJ-19-S	0-1	410-37217-19	4/21/2021	0.83 U	0.96	0.49 J	0.48 J	0.91	1.2	0.26 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	7.4	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
			1-2	410-37217-20	4/21/2021	0.78 U	0.32 J	0.20 U	0.44 J	0.91	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.93	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
		SRJ-20-S	0-1	410-37217-27	4/21/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
			1-2	410-37217-28	4/21/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.32 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
		SRJ-21-S	0-1	410-37219-1	4/21/2021	0.82 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	1.8	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.2 U	0.2 U	0.2 U	0.61 U	0.61 U	0.61 U	0.61 U
			1-2	410-37219-2	4/21/2021	0.85 U	0.34 J	0.26 J	0.38 J	0.29 J	0.24 JI	0.21 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	2.3	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
		SRJ-22-S	0-1	410-37217-32	4/21/2021	0.86 U	0.53 J	0.21 U	0.21 U	0.26 J	0.22 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	1.4	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
			1-2	410-37217-33	4/21/2021	0.90 U	0.65 J	0.28 J	0.40 J	0.70	0.80	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	4.2	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.56 U	0.56 U	0.56 U	0.56 U	0.45 U	0.22 U	0.22 U	0.22 U	0.67 U	0.67 U	0.67 U	0.67 U
		SRJ-23-S	0-1	410-37217-30	4/21/2021	0.87 U	0.60 J	0.25 J	0.22 J	0.31 JI	0.22 J	0.75	0.31 J	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	1.7	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
			1-2	410-37217-31	4/21/2021	0.88 U	0.67	0.39 J	0.43 J	0.45 J	0.58 J	0.70	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	9.4	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
		SRJ-24-S	0-1	410-37217-29	4/21/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.29 J	0.33 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.44 J	3.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
		SRJ-25-S	0-1	410-37219-3	4/21/2021	0.86 U	0.37 J	0.25 J	0.21 U	0.24 J	0.61 J	0.55 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.2 J	0.21 U	0.21 U	6.9	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
			0-1 (DUP)	410-37219-4	4/21/2021	0.83 U	0.36 J	0.21 J	0.21 U	0.27 J	0.48 J	0.65	0.51 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	52	0.21 U	0.24 J	7.0	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
			1-2	410-37219-5	4/21/2021	0.84 U	0.45 J	0.27 J	0.47 J	0.50 J	0.52 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	3.0	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
		SRJ-26-S	0-1	410-37217-23	4/21/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.22 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
			1-2	410-37217-24	4/21/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.22 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.27 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
		SRJ-27-S	0-1	410-37217-25	4/21/2021	0.87 U	0.86	0.39 J	0.43 J	0.37 J	0.47 J	0.41 J	0.23 J	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	1.4	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
			1-2	410-37217-26	4/21/2021	0.86 U	0.41 J	0.22 U	0.22 U	0.52 J	0.66	0.27 J	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.80	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 UJ	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
		SRJ-28-S	0-1	410-37219-6	4/21/2021	0.93 J	0.21 U	0.32 J	0.21 U	0.41 J	0.21 U	0.21 U	0.21 U	1.0	3.3	2.9	0.48 J	0.21 U	1.1 J	0.53 J	3.2	27	0.34 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	1.6 J	0.64 U	13
		SRJ-29-S	0-1	410-37219-7	4/21/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.72	0.68	0.30 J	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.68	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	3.2
			1-2	410-37219-8	4/21/2021	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.43 J	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	1.0 J
		SRJ-30-S	0-1	410-37219-9	4/21/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 J	0.23 J	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.32 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
			1-2	410-37219-10	4/21/2021	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.38 J	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.32 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	1.6 J
		SRJ-31-S	0-1	410-37219-11	4/21/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 J	0.35 J	0.20 U	0.20 U	0.20 U	9.7	0.20 U	0.20 U	0.20 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	1.5 J
			0-1 (DUP)	410-37219-12	4/21/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	1.1 J
			1-2	410-37219-13	4/21/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.69 J
		SRJ-32-S	0-1	410-37219-14	4/21/2021	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.47 J	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	1.4 J
			1-2	410-37219-15	4/21/2021	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
		SRJ-33-S	0-1	410-37219-16	4/21/2021	0.78 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.26 J	0.49 J	0.20 U	0.20 U	0.20 U	2.9	0.20 U	0.20 U	0.26 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	1.3 J
			1-2	410-37219-17	4/21/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
		SRJ-34-S	0-1	410-37219-19	4/21/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.82	0.40 J	0.27 J	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.75 J
			1-2	410-37219-20	4/21/2021	0.78 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.2	0.21 J	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.44 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
		SRJ-35-S	0-1	410-37219-21	4/21/2021	1.6 J	2.7	1.4	1.1	1.3	0.62	0.47 J	0.20 U	0.20 U	0.28 J	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	3.1	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
			1-2	410-37219-22	4/21/2021	0.84 U	0.50 J	0.33 J	0.36 J	0.50 J	0.32 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.7 J	0.21 U	0.21 U	0.97	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
		SRJ-36-S	0-1	410-40917-8	5/17/2021	2.5	5.4	2.6	1.7	1.8	2.2	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	4.9	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
			1-2	410-40917-9	5/17/2021	0.91 J	2.7	2.2	1.1	0.88	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.23 J	2.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
		SRJ-37-S	1-2	410-40917-10	5/18/2021	0.78 U	0.85	0.66	1.2	0.40 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.41 U	0.19 U	0.19 U	0.46 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
			13-14	410-40917-11	5/18/2021	0.79 U	0.20 U	0.20 U	0.34 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
			19-20	410-40917-12	5/18/2021	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
		SRJ-38-S	0-1	410-40917-6	5/17/2021	2.1 J	3.5	2.0	2.3	2.1	2.9	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	3.3	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
			1-2	410-40917-7	5/17/2021	0.82 U	0.21 U	0.21 U	0.21 U	0.56 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.32 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		SRJ-39-S	1-2	410-40917-17	5/18/2021	0.84 U	2.3	1.1	1.3	2.2	2.4	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.95	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
			11-12	410-40917-18	5/18/2021	0.79 U	0.39 J	0.28 J	0.39 J	0.45 J	0.25 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.6 U	4.3	0.60 U	0.60 U
			19-20	410-40917-19	5/18/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
		SRJ-40-S	1-2	410-40917-13	5/18/2021	0.83 U	0.51 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	1.2 J	0.62 U	0.62 U
			1-2 (DUP)	410-40917-14	5/18/2021	0.84 U	0.59 J	0.21 U	0.21 U	0.47 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.41 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
			9-10	410-40917-15	5/18/2021	0.78 U	2.7	2.9	0.27 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.29 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
			19-20	410-40917-16	5/18/2021	0.76 U	0.41 J	0.53 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
		SRJ-41-S	0-1	410-41730-1	5/22/2021	0.83 U	0.83	0.21 U	0.41 J	0.45 J	0.43 J	1.4	1.2	0.41 J	0.25 J	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	1.4	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	1.5 J	0.83 J	1.3 J
			1-2	410-41730-2	5/22/2021	0.86 U	0.71	0.22 U	0.40 J	1.0	2.0	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	26	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	1.0 J	0.65 U	0.65 U
		SRJ-42-S	0-1	410-41730-3	5/22/2021	0.82 J	1.5	0.54 J	0.63	0.46 J	0.86	1.2	1.1	0.27 J	0.23 J	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.23 J	9.4	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	0.61 J	0.59 U	0.64 J
			1-2	410-41730-4	5/22/2021	0.78 U	0.64	0.19 U	0.52 J	0.73	1.3	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	8.3	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
		SRJ-43-S	0-1	410-41730-5	5/22/2021	0.84 U	0.21 U	0.21 U	0.21 U	0.23 J	0.21 U	0.21 U	0.71	0.21 U	0.27 J	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.28 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
			1-2	410-41730-6	5/22/2021	0.88 U	0.35 J	0.22 U	0.33 J	0.59 J	0.39 J	0.22 U	2.3	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.95	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U

Table 3
Summary of PFAS in Soil
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Sample Area	Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled	PFBA [4]	PFPeA [5]	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFHxDA [16]	PFODA [18]
				Subgroup	Carboxylic Acids												
				Analyte	Perfluorobutanoic acid	Perfluoropentanoic acid	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorohexadecanoic acid	Perfluorooctadecanoic acid
				CAS No.	375-22-4	2706-90-3	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	67905-19-5	16517-11-6
				S-1/GW-1 (ng/g)	na	na	na	0.50	0.72	0.32	0.30	na	na	na	na	na	na
				S-1/GW-3 (ng/g)	na	na	na	300	300	300	300	na	na	na	na	na	na
				S-2/S-3/GW-3 (ng/g)	na	na	na	400	400	400	400	na	na	na	na	na	na
AFFF APPLICATION AREAS – South Ramp at J	SRJ-44-S	3-4	410-40916-26	5/20/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		12-13	410-40916-27	5/20/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		26-27	410-40916-28	5/20/2021	0.82 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SRJ-45-S	0-1	410-40916-29	5/20/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.36 J	0.61	0.23 J	0.22 J	0.20 U	0.20 U	0.20 U
		1-2	410-40916-30	5/20/2021	0.81 U	0.33 J	0.20 U	0.20 U	0.20 U	0.20 J	0.22 J	0.21 J	0.20 U	0.20 U	0.20 U	0.20 J	0.20 U
	SRJ-46-S	0-1	410-40916-31	5/20/2021	0.87 U	0.70	0.45 J	0.30 J	0.37 J	0.32 J	0.64 J	0.51 J	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		1-2	410-40916-32	5/20/2021	0.78 U	0.49 J	0.24 J	0.32 J	0.31 J	0.48 J	0.64	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	SRJ-47-S	0-1	410-40918-8	5/20/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.27 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		1-2	410-40918-9	5/20/2021	0.82 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.36 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-48-S	0-1	410-40918-1	5/20/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.47 J	1.2	0.25 J	0.27 J	0.20 U	0.20 U	0.20 U
		0-1 (DUP)	410-40918-3	5/20/2021	0.81 U	0.20 U	0.20 U	0.20 U	0.27 J	0.20 U	0.57 J	1.4	0.29 J	0.34 J	0.20 U	0.20 U	0.20 U
		1-2	410-40918-2	5/20/2021	0.82 U	0.52 J	0.23 J	0.29 J	0.38 J	0.35 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SRJ-49-S	0-1	410-40918-4	5/20/2021	0.85 U	0.51 J	0.52 J	0.47 J	1.1	0.48 J	4.2	4.0	7.3	4.3	2.6	0.75	0.21 U
		1-2	410-40918-5	5/20/2021	0.82 U	0.73	0.26 J	0.27 J	1.2	1.5	5.9	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-49-A	0-1	410-49501-4	7/28/2021	0.82 U	1.1	0.73	0.88	1.0	0.55 J	5.6	7.5	3.00	1.20	0.77	0.23 J	0.20 U
		1-2	410-49501-5	7/28/2021	0.82 U	0.43 J	0.25 J	0.24 J	0.94	1.4	6.2	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SRJ-49-D	0-1	410-49501-13	7/28/2021	0.82 U	0.59 J	0.49 J	0.53 J	0.76	0.41 J	4.3	5.1	4.80	2.30	1.80	0.45 J	0.21 U
		0-1 (DUP)	410-49501-14	7/28/2021	0.82 U	0.81	0.53 J	0.76	0.94	0.52 J	6.5	6.2	2.80	1.10	0.85	0.20 U	0.20 U
		1-2	410-49501-15	7/28/2021	0.87 U	0.29 J	0.22 U	0.22 U	0.51 J	0.85	2.2	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	SRJ-49-G	0-1	410-49501-24	7/28/2021	0.80 U	0.45 J	0.25 J	0.69	0.47 J	0.94	4.0	1.1	0.25 J	0.20 U	0.20 U	0.20 U	0.20 U
		1-2	410-49501-25	7/28/2021	0.83 U	0.32 J	0.21 U	0.34 J	0.47 J	1.7	0.36 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-49-R	1-2	410-49501-1	7/28/2021	0.84 U	0.32 J	0.21 U	0.21 U	0.59 J	0.76	2.9	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-49501-2	7/28/2021	0.75 U	0.19 U	0.19 U	0.19 U	0.4 J	0.29 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	SRJ-50-S	0-1	410-40918-6	5/20/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 J	1.5	0.36 J	0.21 U	0.21 U	0.21 J	0.21 U
		1-2	410-40918-7	5/20/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.22 J	0.20 J	1.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SRJ-51-S	0-1	410-40918-15	5/20/2021	0.78 U	0.48 J	0.35 J	0.24 J	0.33 J	0.21 J	1.4	2.6	6.6	2.4	0.88	0.21 J	0.20 U
		1-2	410-40918-16	5/20/2021	0.82 U	0.37 J	0.20 U	0.20 U	0.25 J	0.22 J	1.9	7.9	6.0	0.23 J	0.20 U	0.20 U	0.20 U
	SRJ-52-S	0-1	410-40918-13	5/20/2021	0.76 U	0.19 U	0.19 U	0.19 U	0.22 J	0.19 U	0.45 J	0.62	0.20 J	0.20 J	0.19 U	0.19 U	0.19 U
		1-2	410-40918-14	5/20/2021	0.85 U	0.91	0.40 J	0.58 J	0.67	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-53-S	0-1	410-40918-10	5/20/2021	0.82 U	0.20 U	0.20 U	0.20 U	0.20 J	0.20 U	0.20 U	0.57 J	0.28 J	0.30 J	0.20 U	0.20 U	0.20 U
		0-1 (DUP)	410-40918-12	5/20/2021	0.78 U	0.21 J	0.19 U	0.19 U	0.42 J	0.19 U	0.34 J	0.79	0.37 J	0.41 J	0.19 U	0.19 U	0.19 U
		1-2	410-40918-11	5/20/2021	0.86 U	1.2	0.62 J	0.58 J	0.51 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-54-S	0-1	410-41730-7	5/24/2021	0.81 U	0.38 J	0.20 U	0.20 U	0.27 J	0.38 J	0.20 U	1.3	0.20 U	0.59 J	0.20 U	0.20 U	0.20 U
		1-2	410-41730-8	5/24/2021	0.81 U	0.67	0.20 U	0.34 J	0.26 J	0.36 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SRJ-55-S	4-5	410-41730-9	5/22/2021	0.78 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.44 J	0.20 U	0.20 U	0.20 U	0.20 U
		9-10	410-41730-10	5/22/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		12-13	410-41730-11	5/22/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
AFFF APPLICATION AREAS – Sand Pit	SP-01-S	0-2	410-21757-1	11/18/2020	0.85 U	0.21 U	0.21 U	0.21 U	0.21 U	1.3	9.7	0.94	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		9-11	410-21757-2	11/18/2020	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		9-11 (DUP)	410-21757-3	11/18/2020	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		18-20	410-21757-4	11/18/2020	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SP-02-S	0-1	410-21757-5	11/18/2020	0.79 U	0.84	0.66	1.1	5.8	0.76	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		1-2	410-21757-6	11/18/2020	0.84 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SP-03-S	0-1	410-21757-7	11/18/2020	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		1-2	410-21757-8	11/18/2020	0.81 U	0.83	0.20 U	0.66	1.1	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SP-04-S	0-2	410-21757-9	11/18/2020	0.79 U	0.89	0.20 U	0.77	1.7	1.8	4.5	1.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		13-15	410-21757-10	11/18/2020	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		20-22	410-21757-11	11/18/2020	0.90 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	SP-5-S	1-2	410-55513-1	9/15/2021	0.86 U	1.5	0.7	1.1	2.4	4.1	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-55513-2	9/15/2021	0.79 U	0.21 J	0.2 U	1.0	1.3	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SP-6-S	1-2	410-55513-3	9/15/2021	0.77 U	0.33 J	0.19 U	0.19 U	0.35 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55513-4	9/15/2021	0.82 U	0.47 J	0.21 U	0.46 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SP-7-S	1-2	410-55513-5	9/15/2021	0.84 U	0.34 J	0.21 U	0.21 U	0.26 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-55513-6	9/15/2021	0.98 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	2.6	0.36 J	3.50	0.25 U	0.25 U	0.25 U
	SP-8-S	1-2	410-55513-7	9/15/2021	0.82 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-55513-8	9/15/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SP-9-S	3-4	410-55513-10	9/15/2021	0.79 U	0.2 U	0.2 U	0.2 U	0.2 U	0.45 J	4.9	17	0.55 J	0.68	0.20 U	0.20 U	0.20 U
		1-2	410-55513-9	9/15/2021	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.90	6.9	25	0.20 J	0.19 J	0.19 U	0.19 U	0.19 U
	SP-10-S	1-2	410-55513-11	9/15/2021	0.80 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.9	0.24 J	1.50	0.20 U	0.20 U	0.20 U
		3-4	410-55513-12	9/15/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.0 I	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	SP-11-S	1-2	410-55513-13	9/15/2021	0.78 U	0.19 U	0.19 U	0.19 U	0.34 J	0.30 J	0.19 U	0.83	0.34 J	16	0.64	0.19 U	0.19 U
		3-4	410-55513-14	9/15/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	SP-12-S	1-2	410-55513-15	9/15/2021	0.77 U	0.19 U	0.2 J	0.19 U	0.19 U	0.19 U	0.2 J	47	0.19 U	0.85	0.19 U	0.19 U	0.19 U
		3-4	410-55513-16	9/15/2021	0.78 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SP-13-S	1-2	410-55513-19	9/15/2021	0.81 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		3-4	410-55513-20	9/15/2021	0.79 U	0.2 U	0.31 J	0.2 U	0.2 U	0.2 U	0.2 U	0.45 J	0.29 J	2.60	0.20 U	0.20 U	0.20 U
	SP-14-S	1-2	410-55513-21	9/15/2021	0.80 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		3-4	410-55513-22	9/15/2021	0.78 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	SP-15-S	1-2	410-55513-23	9/15/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55513-24	9/15/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SP-16-S	1-2	410-55663-1	9/15/2021	0.84 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 J	0.27 J	1.70	0.21 U	0.21 U	0.21 U
		3-4	410-55663-2	9/15/2021	0.84 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	88	0.46 J	0.76	0.21 U	0.21 U	0.21 U
	SP-17-S	1-2	410-55663-3	9/16/2021	0.82 U	0.21 U	0.21 U	0.21 U	0.21 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		1-2 (DUP)	410-55663-5	9/16/2021	0.77 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55663-4	9/16/2021	0.80 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.81	6.80	6.70	0.35 J	0.20 J	0.20 U
	SP-18-S	1-2	410-55663-6	9/16/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.26 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-55663-7	9/16/2021	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	2.2	0.35 J	81	11.00	42.00	0.55 J	0.27 J	0.21 U
	SP-19-S	1-2	410-55663-8	9/16/2021	0.77 U	0.46 J	0.19 U	0.19 U	0.27 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55663-9	9/16/2021	0.83 U	0.27 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	2.2	0.58 J	2.60	0.21 U	0.21 U	0.21 U
	SP-20-S	1-2	410-55663-10	9/16/2021	0.79 U	0.21 J	0.2 U	0.2 U	0.29 J	0.36 J	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		3-4	410-55663-11	9/16/2021	0.78 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.43 J	0.22 J	0.97	0.19 U	0.19 U	0.19 U
	SP-21-S	1-2	410-55663-12	9/16/2021	0.75 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55663-13	9/16/2021	0.85 U	0.42 J	1.5	0.21 U	0.3 J	0.21 U	0.21 U	0.4 J	0.83	16.00	1.30	0.38 J	0.21 U

Sample Area	Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled	PFBS [4S]	PFPeS [5S]	PFHxS [6S]	PFOS [8S]	PFHpS [7S]	PFNS [9S]	PFDS [10S]	PFDoS [12S]	PFOSA
				Subgroup	Sulfonic Acids / Sulfonamides								
				Analyte	Perfluorobutanesulfonic acid	Perfluoropentanesulfonate	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	Perfluoroheptanesulfonic acid	Perfluorononanesulfonic acid	Perfluorodecanesulfonic acid	Perfluorododecanesulfonic acid	Perfluorooctane-sulfonamide
				CAS No.	375-73-5	2706-91-4	355-46-4	1763-23-1	375-92-8	68259-12-1	335-77-3	79780-39-5	754-91-6
				S-1/GW-1 (ng/g)	na	na	0.30	2.0	na	na	na	na	na
				S-1/GW-3 (ng/g)	na	na	300	300	na	na	na	na	na
				S-2/S-3/GW-3 (ng/g)	na	na	400	400	na	na	na	na	na
AFFF APPLICATION AREAS – South Ramp at J	SRJ-44-S	3-4	410-40916-26	5/20/2021	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		12-13	410-40916-27	5/20/2021	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		26-27	410-40916-28	5/20/2021	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SRJ-45-S	0-1	410-40916-29	5/20/2021	0.40 U	0.20 U	0.20 J	1.6	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		1-2	410-40916-30	5/20/2021	0.40 U	0.20 U	0.20 U	0.50 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SRJ-46-S	0-1	410-40916-31	5/20/2021	0.43 U	0.22 U	0.22 U	2.4	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		1-2	410-40916-32	5/20/2021	0.39 U	0.19 U	0.19 U	2.1	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	SRJ-47-S	0-1	410-40918-8	5/20/2021	0.41 U	0.21 U	0.21 U	2.4	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		1-2	410-40918-9	5/20/2021	0.41 U	0.21 U	0.21 U	0.52 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-48-S	0-1	410-40918-1	5/20/2021	0.40 U	0.20 U	0.20 U	2.1	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		0-1 (DUP)	410-40918-3	5/20/2021	0.41 U	0.20 U	0.27 J	2.7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		1-2	410-40918-2	5/20/2021	0.41 U	0.20 U	0.20 U	2.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SRJ-49-S	0-1	410-40918-4	5/20/2021	0.90 J	0.95	6.4	48	0.59 J	0.27 J	0.50 J	0.68 J	0.89
		1-2	410-40918-5	5/20/2021	0.41 U	0.21 U	0.29 J	400	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-49-A	0-1	410-49501-4	7/28/2021	0.41 U	0.2 U	1.3	13	0.2 U	0.70	0.38 J	0.31 J	0.94
		1-2	410-49501-5	7/28/2021	0.41 U	0.2 U	0.24 J	140	0.2 U	0.20 U	0.2 U	0.2 U	0.21 J
	SRJ-49-D	0-1	410-49501-13	7/28/2021	0.54 J	0.64	3.3	28	0.29 J	0.42 J	0.54 J	0.6 J	0.7
		0-1 (DUP)	410-49501-14	7/28/2021	0.41 U	0.28 J	1.4	13	0.2 U	0.85	0.42 J	0.39 J	0.67
		1-2	410-49501-15	7/28/2021	0.44 U	0.22 U	0.22 U	120	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	SRJ-49-G	0-1	410-49501-24	7/28/2021	0.4 U	0.2 U	0.2 U	3.2	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U
		1-2	410-49501-25	7/28/2021	0.41 U	0.21 U	0.21 U	53	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-49-R	1-2	410-49501-1	7/28/2021	0.42 U	0.21 U	0.21 U	51	0.21 U	1.50 I	0.21 U	0.21 U	0.21 U
		3-4	410-49501-2	7/28/2021	0.37 U	0.19 U	0.31 J	36	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	SRJ-50-S	0-1	410-40918-6	5/20/2021	0.42 U	0.21 U	0.21 J	2.8	0.21 U	0.21 U	0.46 J	0.21 U	0.21 U
		1-2	410-40918-7	5/20/2021	0.40 U	0.20 U	0.20 U	4.1	0.20 U	0.31 J	0.20 U	0.20 U	0.20 U
	SRJ-51-S	0-1	410-40918-15	5/20/2021	0.39 U	0.20 U	1.0	19	0.20 U	0.20 U	0.22 J	0.45 J	0.29 J
		1-2	410-40918-16	5/20/2021	0.41 U	0.20 U	0.23 J	0.20 U	0.20 U	0.20 U	1.3	0.20 U	0.40 J
	SRJ-52-S	0-1	410-40918-13	5/20/2021	0.38 U	0.19 U	0.19 U	1.7	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		1-2	410-40918-14	5/20/2021	0.42 U	0.21 U	0.21 U	2.6	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-53-S	0-1	410-40918-10	5/20/2021	0.41 U	0.20 U	0.37 J	3.6 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		0-1 (DUP)	410-40918-12	5/20/2021	0.39 U	0.19 U	0.26 J	1.9 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		1-2	410-40918-11	5/20/2021	0.43 U	0.21 U	0.21 U	2.4	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SRJ-54-S	0-1	410-41730-7	5/24/2021	0.41 U	0.20 U	0.20 U	2.9	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		1-2	410-41730-8	5/24/2021	0.40 U	0.20 U	0.20 U	45	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SRJ-55-S	4-5	410-41730-9	5/22/2021	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		9-10	410-41730-10	5/22/2021	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		12-13	410-41730-11	5/22/2021	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
AFFF APPLICATION AREAS – Sand Pit	SP-01-S	0-2	410-21757-1	11/18/2020	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		9-11	410-21757-2	11/18/2020	0.38 U	0.19 U	0.19 U	1.0	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		9-11 (DUP)	410-21757-3	11/18/2020	0.38 U	0.19 U	0.19 U	1.1	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		18-20	410-21757-4	11/18/2020	0.41 U	0.20 U	0.20 U	1.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SP-02-S	0-1	410-21757-5	11/18/2020	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		1-2	410-21757-6	11/18/2020	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SP-03-S	0-1	410-21757-7	11/18/2020	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		1-2	410-21757-8	11/18/2020	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SP-04-S	0-2	410-21757-9	11/18/2020	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		13-15	410-21757-10	11/18/2020	0.39 U	0.20 U	0.20 U	27	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		20-22	410-21757-11	11/18/2020	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	SP-5-S	1-2	410-55513-1	9/15/2021	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-55513-2	9/15/2021	0.4 U	0.2 U	0.2 U	0.31 J I	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U
	SP-6-S	1-2	410-55513-3	9/15/2021	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55513-4	9/15/2021	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SP-7-S	1-2	410-55513-5	9/15/2021	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-55513-6	9/15/2021	0.49 U	0.25 U	0.25 U	0.65 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
	SP-8-S	1-2	410-55513-7	9/15/2021	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-55513-8	9/15/2021	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SP-9-S	3-4	410-55513-10	9/15/2021	0.39 U	0.2 U	0.2 U	1.3	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U
		1-2	410-55513-9	9/15/2021	0.38 U	0.19 U	0.19 U	1.9	0.19 U	0.22 J	0.19 U	0.19 U	0.19 U
	SP-10-S	1-2	410-55513-11	9/15/2021	0.4 U	0.2 U	0.2 U	1.5	0.2 U	0.23 J	0.2 U	0.21 J	0.52 J
		3-4	410-55513-12	9/15/2021	0.38 U	0.19 U	0.29 J	1.9	0.19 U	0.19 U	0.19 U	0.19 U	0.82
	SP-11-S	1-2	410-55513-13	9/15/2021	0.39 U	0.19 U	0.73	1.1	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55513-14	9/15/2021	0.39 U	0.19 U	0.19 U	0.94	0.19 U	0.20 J	0.19 U	0.19 U	0.42 J
	SP-12-S	1-2	410-55513-15	9/15/2021	0.39 U	0.19 U	0.19 U	1.1	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55513-16	9/15/2021	0.39 U	0.2 U	0.2 U	1.9	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U
	SP-13-S	1-2	410-55513-19	9/15/2021	0.41 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U
		3-4	410-55513-20	9/15/2021	0.4 U	0.2 U	0.2 U	0.31 J	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U
	SP-14-S	1-2	410-55513-21	9/15/2021	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U
		3-4	410-55513-22	9/15/2021	0.39 U	0.19 U	0.19 U	0.22 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	SP-15-S	1-2	410-55513-23	9/15/2021	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55513-24	9/15/2021	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SP-16-S	1-2	410-55663-1	9/15/2021	0.42 U	0.21 U	0.92	0.45 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-55663-2	9/15/2021	0.42 U	0.21 U	0.23 J	2.2	0.21 U	0.21 U	0.21 U	0.21 U	1.3
	SP-17-S	1-2	410-55663-3	9/16/2021	0.41 U	0.21 U	0.21 U	0.23 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		1-2 (DUP)	410-55663-5	9/16/2021	0.38 U	0.19 U	0.19 U	0.26 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55663-4	9/16/2021	0.4 U	0.2 U	0.2 U	0.5 J	0.2 U	0.20 U	0.2 U	0.2 U	0.25 J
	SP-18-S	1-2	410-55663-6	9/16/2021	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		3-4	410-55663-7	9/16/2021	0.41 U	0.21 U	1.4	39	0.31 J	0.48 J	0.48 J	0.21 U	1.4
	SP-19-S	1-2	410-55663-8	9/16/2021	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55663-9	9/16/2021	0.42 U	0.21 U	0.21 U	0.5 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SP-20-S	1-2	410-55663-10	9/16/2021	0.4 U	0.2 U	0.2 U	0.24 J	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U
		3-4	410-55663-11	9/16/2021	0.39 U	0.19 U	0.19 U	1.1	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	SP-21-S	1-2	410-55663-12	9/16/2021	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
		3-4	410-55663-13	9/16/2021	0.42 U	0.21 U	0.82	2.6	0.21 U	0.21 U	0.21 U	0.3 J	0.21 U

Sample Area	Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2 FTS	6:2 FTS	8:2 FTS	10:2 FTS
				Subgroup	Perfluoroalkane Sulfonamido Substances						Precursors and Replacement Compounds							
				Analyte	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2-Fluorotelomersulfonic acid	6:2-Fluorotelomersulfonic acid	8:2-Fluorotelomersulfonic acid	10:2 Fluorotelomersulfonic acid
				CAS No.	2991-50-6	2355-31-9	24448-09-7	31506-32-8	1691-99-2	4151-50-2	13252-13-6	919005-14-4	756426-58-1	763051-92-9	757124-72-4	27619-97-2	39108-34-4	120226-60-0
				S-1/GW-1 (ng/g)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
				S-1/GW-3 (ng/g)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
				S-2/S-3/GW-3 (ng/g)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AFFF APPLICATION AREAS – South Ramp at J	SRJ-44-S	3-4	410-40916-26	5/20/2021	0.21 UJ	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		12-13	410-40916-27	5/20/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
		26-27	410-40916-28	5/20/2021	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	SRJ-45-S	0-1	410-40916-29	5/20/2021	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
		1-2	410-40916-30	5/20/2021	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	SRJ-46-S	0-1	410-40916-31	5/20/2021	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
		1-2	410-40916-32	5/20/2021	0.19 UJ	0.19 UJ	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	SRJ-47-S	0-1	410-40918-8	5/20/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		1-2	410-40918-9	5/20/2021	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	SRJ-48-S	0-1	410-40918-1	5/20/2021	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
		0-1 (DUP)	410-40918-3	5/20/2021	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
		1-2	410-40918-2	5/20/2021	0.20 UJ	0.20 UJ	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	SRJ-49-S	0-1	410-40918-4	5/20/2021	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	13	6.0	57
		1-2	410-40918-5	5/20/2021	0.21 UJ	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.82 J	5.0	0.62 U
	SRJ-49-A	0-1	410-49501-4	7/28/2021	0.2 U	0.2 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.2 U	0.2 U	0.2 U	0.61 U	2.4	4	21
		1-2	410-49501-5	7/28/2021	0.2 U	0.2 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.2 U	0.2 U	0.2 U	0.61 U	0.86 J	6.2	0.61 U
	SRJ-49-D	0-1	410-49501-13	7/28/2021	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	7.8	7	32
		0-1 (DUP)	410-49501-14	7/28/2021	0.2 U	0.2 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.2 U	0.2 U	0.2 U	0.61 U	3	8.5	27
		1-2	410-49501-15	7/28/2021	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	1 J	1.7 J	0.66 U
	SRJ-49-G	0-1	410-49501-24	7/28/2021	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 U	0.2 U	0.2 U	0.2 U	0.6 U	0.6 U	0.6 U	0.6 U
		1-2	410-49501-25	7/28/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	SRJ-49-R	1-2	410-49501-1	7/28/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.68 J	0.63 J	0.63 U
		3-4	410-49501-2	7/28/2021	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.37 U	0.19 U	0.19 U	0.19 U	0.56 U	1.9	0.56 U	0.56 U
	SRJ-50-S	0-1	410-40918-6	5/20/2021	0.21 UJ	0.21 UJ	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		1-2	410-40918-7	5/20/2021	0.20 UJ	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	SRJ-51-S	0-1	410-40918-15	5/20/2021	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	1.6 J
		1-2	410-40918-16	5/20/2021	0.20 UJ	0.20 UJ	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	SRJ-52-S	0-1	410-40918-13	5/20/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
		1-2	410-40918-14	5/20/2021	0.21 UJ	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
	SRJ-53-S	0-1	410-40918-10	5/20/2021	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
		0-1 (DUP)	410-40918-12	5/20/2021	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
		1-2	410-40918-11	5/20/2021	0.21 UJ	0.21 UJ	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
	SRJ-54-S	0-1	410-41730-7	5/24/2021	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
		1-2	410-41730-8	5/24/2021	0.20 UJ	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	SRJ-55-S	4-5	410-41730-9	5/22/2021	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	2.5
		9-10	410-41730-10	5/22/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	1.8 J
		12-13	410-41730-11	5/22/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
AFFF APPLICATION AREAS – Sand Pit	SP-01-S	0-2	410-21757-1	11/18/2020	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	42	13
		9-11	410-21757-2	11/18/2020	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	5.8	0.57 U	0.57 U
		9-11 (DUP)	410-21757-3	11/18/2020	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	6.1	0.57 U	0.57 U
		18-20	410-21757-4	11/18/2020	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	8.2	0.61 U	0.61 U
	SP-02-S	0-1	410-21757-5	11/18/2020	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	34	0.60 U	0.60 U
		1-2	410-21757-6	11/18/2020	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
	SP-03-S	0-1	410-21757-7	11/18/2020	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
		1-2	410-21757-8	11/18/2020	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	3.2	0.61 U	0.61 U
	SP-04-S	0-2	410-21757-9	11/18/2020	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	7.0	27	11
		13-15	410-21757-10	11/18/2020	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	8.0	0.59 U	0.59 U
		20-22	410-21757-11	11/18/2020	0.22 U	0.22 U	0.56 U	0.56 U	0.56 U	0.56 U	0.45 U	0.22 U	0.22 U	0.22 U	0.67 U	0.67 U	0.67 U	0.67 U
	SP-5-S	1-2	410-55513-1	9/15/2021	0.21 U	0.21 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	14	14	0.64 U
		3-4	410-55513-2	9/15/2021	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 U	0.2 U	0.2 U	0.2 U	0.59 U	22	0.59 U	0.59 U
	SP-6-S	1-2	410-55513-3	9/15/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
		3-4	410-55513-4	9/15/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	SP-7-S	1-2	410-55513-5	9/15/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
		3-4	410-55513-6	9/15/2021	0.25 U	0.25 U	0.62 U	0.62 U	0.62 U	0.62 U	0.49 U	0.25 U	0.25 U	0.25 U	0.74 U	0.74 U	0.74 U	0.74 U
	SP-8-S	1-2	410-55513-7	9/15/2021	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		3-4	410-55513-8	9/15/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	SP-9-S	3-4	410-55513-10	9/15/2021	0.2 U	0.2 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.2 U	0.2 U	0.2 U	0.59 U	0.59 U	1.1 J	5.6
		1-2	410-55513-9	9/15/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	1.4 J	2.2
	SP-10-S	1-2	410-55513-11	9/15/2021	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 U	0.2 U	0.2 U	0.2 U	0.6 U	0.6 U	0.6 U	0.6 U
		3-4	410-55513-12	9/15/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	SP-11-S	1-2	410-55513-13	9/15/2021	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
		3-4	410-55513-14	9/15/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	SP-12-S	1-2	410-55513-15	9/15/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
		3-4	410-55513-16	9/15/2021	0.2 U	0.2 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.2 U	0.2 U	0.2 U	0.59 U	0.59 U	0.59 U	0.59 U
	SP-13-S	1-2	410-55513-19	9/15/2021	0.2 U	0.2 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.2 U	0.2 U	0.2 U	0.61 U	0.61 U	0.61 U	0.61 U
		3-4	410-55513-20	9/15/2021	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 U	0.2 U	0.2 U	0.2 U	0.59 U	0.59 U	0.59 U	0.59 U
	SP-14-S	1-2	410-55513-21	9/15/2021	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 U	0.2 U	0.2 U	0.2 U	0.6 U	0.6 U	0.6 U	0.6 U
		3-4	410-55513-22	9/15/2021	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	SP-15-S	1-2	410-55513-23	9/15/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
		3-4	410-55513-24	9/15/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	SP-16-S	1-2	410-55663-1	9/15/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
		3-4	410-55663-2	9/15/2021	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
	SP-17-S	1-2	410-55663-3	9/16/2021	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		1-2 (DUP)	410-55663-5	9/16/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
		3-4	410-55663-4	9/16/2021	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 U	0.2 U	0.2 U	0.2 U	0.6 U	0.6 U	0.6 U	0.6 U
	SP-18-S	1-2	410-55663-6	9/16/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		3-4	410-55663-7	9/16/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	2.2
	SP-19-S	1-2	410-55663-8	9/16/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
		3-4	410-55663-9	9/16/2021	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	SP-20-S	1-2	410-55663-10	9/16/2021	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 U	0.2 U	0.2 U	0.2 U	0.59 U	0.59 U	0.59 U	0.59 U
		3-4	410-55663-11	9/16/2021	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
	SP-21-S	1-2	410-55663-12	9/16/2021	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.56 U	0.56 U	0.56 U	0.56 U
		3-4	410-55663-13	9/16/2021	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U

Table 3
Summary of PFAS in Soil
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

				Subgroup	Carboxylic Acids													Sulfonic Acids / Sulfonamides									Perfluoroalkane Sulfonamido Substances						Precursors and Replacement Compounds								
				Analyte	Perfluorobutanoic acid	Perfluoropentanoic acid	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorohexadecanoic acid	Perfluorooctadecanoic acid	Perfluorobutanesulfonic acid	Perfluoropentanesulfonate	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	Perfluoroheptanesulfonic acid	Perfluorononanesulfonic acid	Perfluorodecanesulfonic acid	Perfluorododecanesulfonic acid	Perfluorooctane-sulfonamide	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HPFODA	DONA	9CL-PF3ONS	11CL-PF3OUdS	4:2 Fluorotelomersulfonic acid	6:2 Fluorotelomersulfonic acid	8:2 Fluorotelomersulfonic acid	10:2 Fluorotelomersulfonic acid
				Acronym	PFBA [4]	PFPeA [5]	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUNA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFHxDA [16]	PFODA [18]	PFBS [4S]	PFPeS [5S]	PFHxS [6S]	PFOS [8S]	PFHpS [7S]	PFNS [9S]	PFDS [10S]	PFDoS [12S]	PFOSA	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HPFODA	DONA	9CL-PF3ONS	11CL-PF3OUdS	4:2 FTS	6:2 FTS	8:2 FTS	10:2 FTS
				CAS No.	375-22-4	2706-90-3	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	67905-19-5	16517-11-6	375-73-5	2706-91-4	355-46-4	1763-23-1	375-92-8	68259-12-1	335-77-3	79780-39-5	754-91-6	2991-50-6	2355-31-9	24448-09-7	31506-32-8	1691-99-2	4151-50-2	13252-13-6	919005-14-4	756426-58-1	763051-92-9	757124-72-4	27619-97-2	39108-34-4	120226-60-0
				S-1/GW-1 (ng/g)	na	na	na	0.50	0.72	0.32	0.30	na	na	na	na	na	na	na	na	0.30	2.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
				S-1/GW-3 (ng/g)	na	na	na	300	300	300	300	na	na	na	na	na	na	na	na	300	300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
				S-2/S-3/ GW-3 (ng/g)	na	na	na	400	400	400	400	na	na	na	na	na	na	na	na	400	400	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
		Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled																																			
Snow Removal Equipment		SRE-01-S	0-1	410-21757-12	11/19/2020	0.82 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.64**	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	**5.6**
			0-1 (DUP)	410-21757-13	11/19/2020	0.78 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.61**	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	**5.5**
			1-2	410-21757-14	11/19/2020	0.78 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	**13**
		SRE-02-S	0-2	410-21757-15	11/19/2020	0.83 U	**0.84**	0.21 U	**0.66**	0.21 U	0.21 U	0.21 U	0.21 U	**1.6**	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	**11**
			16-18	410-21757-16	11/19/2020	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
			29-31	410-21757-17	11/19/2020	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		SRE-03-S	0-1	410-21757-18	11/19/2020	0.85 U	**4.9**	**2.6**	**2.7**	**3.4**	**2.1**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	**5.0**	0.64 U	**10**
			1-2	410-21757-19	11/19/2020	0.82 U	**2.4**	**1.3**	**1.6**	**3.6**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	**5.8**	0.62 U	0.62 U
		SRE-04-S	0-2	410-21757-20	11/18/2020	0.88 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
			16-18	410-21757-21	11/18/2020	0.75 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.37 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.37 U	0.19 U	0.19 U	0.19 U	0.56 U	0.56 U	0.56 U	0.56 U
			35-37	410-21757-22	11/19/2020	0.86 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
		SRE-06-S	0-1	410-41730-12	5/26/2021	**1.4 J**	**2.8**	**2.1**	**1.3**	**1.9**	**1.0**	**0.26 J**	**0.53 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	**1.1**	**10**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
			0-1 (DUP)	410-41730-14	5/26/2021	**0.98 J**	**1.9**	**1.4**	**0.88**	**1.5**	**1.1**	**0.43 J**	**1.3**	0.20 U	**0.52 J**	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	**1.1**	**16**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
			1-2	410-41730-13	5/26/2021	0.79 U	**1.2**	**1.1**	**0.84**	**1.3**	**0.58 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	**0.76**	**7.4**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
		SRE-07-S	0-1	410-41730-15	5/26/2021	**2.4**	**5.5**	**3.5**	**3.3**	**3.0**	**8.3**	**3.5**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	**0.22 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	**7.5**	**1.6 J**	**3.1**
			1-2	410-41730-16	5/26/2021	**1.5 J**	**2.9**	**1.9**	**6.4**	**12**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	**12**	**1.1 J**	0.60 U
		SRE-08-S	0-1	410-41730-17	5/26/2021	**3.2**	**7.4**	**4.2**	**3.4**	**1.7**	**2.0**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	**0.45 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
			1-2	410-41730-18	5/26/2021	**1.0 J**	**1.8**	**1.4**	**2.0**	**1.1**	**0.26 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
		SRE-09-S	0-1	410-41730-19	5/26/2021	**2.2**	**3.6**	**1.9**	**1.7**	**1.2**	**1.3**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	**0.33 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	**0.90 J**	0.61 U	0.61 U
			1-2	410-41730-20	5/26/2021	**1.6 J**	**2.2**	**1.4**	**2.1**	**1.3**	**0.22 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 UJ	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
		SRE-10-S	0-1	410-41730-21	5/27/2021	0.81 U	0.20 U	0.20 U	0.20 U	**0.32 J**	**0.37 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	**0.38 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
			1-2	410-41730-22	5/27/2021	0.86 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 UJ	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
		SRE-11-S	0-1	410-41730-23	5/27/2021	**0.92 J**	**1.8**	**0.78**	**0.96**	**1.3**	**3.6**	**3.3**	**0.42 J**	**0.60 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	**2.8**	**5.5**	**17**
			1-2	410-41730-24	5/27/2021	0.77 U	0.19 U	0.19 U	**0.26 J**	**0.86**	**2.0**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	**2.0**	**0.63 J**	**1.1 J**
		SRE-12-S	0-1	410-41730-25	5/27/2021	**1.9 J**	**4.7**	**1.8**	**1.8**	**1.9**	**2.3**	**1.6**	**0.52 J**	**0.37 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	**0.22 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	**1.6 J**	**1.9 J**	**1.4 J**
			1-2	410-41730-26	5/27/2021	**1.5 J**	**2.6**	**1.9**	**5.7**	**1.0**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
		SRE-13-S	0-1	410-41730-27	5/27/2021	**2.6**	**5.8**	**3.9**	**4.7**	**1.6**	**0.43 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	**0.57 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
			1-2	410-41730-28	5/27/2021	**1.6 J**	**4.3**	**3.0**	**6.6**	**0.48 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
		SRE-14-S	0-1	410-41730-29	5/27/2021	0.81 U	**1.0**	**0.67**	**0.49 J**	**0.62**	**0.39 J**	0.20 U	**0.27 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	**0.33 J**	**2.9**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
			1-2	410-41730-30	5/27/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
		SRE-15-S	0-1	410-41730-31	5/27/2021	0.79 U	**0.89**	**0.46 J**	**0.44 J**	**0.57 J**	**0.41 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	**0.24 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
			1-2	410-41730-32	5/27/2021	0.83 U	**0.33 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		SRE-16-S	0-1	410-41731-6	5/27/2021	0.80 U	**0.35 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.51 J**	**0.53 J**	**0.89**	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	**0.83 J**	0.60 U	**5.3**
			1-2	410-41731-7	5/27/2021	0.75 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.38 U	0.19 U	0.19 U	0.19 U	0.56 U	0.56 U	0.56 U	0.56 U
			1-2 (DUP)	410-41731-8	5/27/2021	0.82 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		SRE-17-S	0-1	410-41731-9	5/27/2021	0.74 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.37 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.46 U	0.46 U	0.46 U	0.46 U	0.37 U	0.19 U	0.19 U	0.19 U	0.56 U	0.56 U	0.56 U	0.56 U
			1-2	410-41731-10	5/27/2021	0.82 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
		SRE-18-S	0-1	410-41731-11	5/27/2021	0.78 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.19 U	**0.65**	**0.30 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
			1-2	410-41731-12	5/27/2021	0.78 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
Strojny Lot		SL-01-S	0-2	410-21749-1	11/19/2020	0.88 U	**3.4**	**2.2**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	**0.79**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	**68**	0.66 U	0.66 U
			21-23	410-21749-2	11/19/2020	0.80 U	**1.8**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
			30-32	410-21749-3	11/19/2020	0.82 U	**1.9**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
		SL-02-S	0-1	410-21749-4	11/19/2020	0.76 U	**10.0**	**4.8**	**1.1**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	**25**	0.57 U	0.57 U
			0-1 (DUP)	410-21749-5	11/19/2020	0.81 U	**8.2**	**3.9**	**1.1**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	**35**	0.61 U	0.61 U
			1-2	410-21749-6	11/19/2020	0.82 U	**5.2**	**1.3**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	**20**	0.61 U	0.61 U
		SL-03-S	0-1	410-21749-7	11/19/2020	0.87 U	**3.6**	**1.9**	**1.4**	**0.73**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	**1.3**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	**11**	**3.6**	**2.6**
			1-2	410-21749-8	11/19/2020	0.90 U	**4.1**	**2.6**	**1.1**	**1.2**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.45 U	0.23 U	0.23 U	**1.7**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.56 U	0.56 U	0.56 U	0.56 U	0.45 U	0.23 U	0.23 U	0.23 U	0.68 U	**89**	**5.0**	**2.6**
		SL-04-S	0-1	410-21749-9	11/19/2020	0.85 U	**1.0**	**0.74**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	**41**	0.64 U	0.64 U
			1-2	410-21749-10	11/19/2020	0.80 U	**2.7**	**2.1**	**0.69**	**0.87**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	**120**	0.60 U	0.60 U

Table 3
Summary of PFAS in Soil
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Carboxylic Acids

Area	Sub-area	Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled	Perfluorobutanoic acid PFBA [4]	Perfluoropentanoic acid PFPeA [5]	Perfluorohexanoic acid PFHxA [6]	Perfluoroheptanoic acid PFHpA [7]	Perfluorooctanoic acid PFOA [8]	Perfluorononanoic acid PFNA [9]	Perfluorodecanoic acid PFDA [10]	Perfluoroundecanoic acid PFUNA [11]	Perfluorododecanoic acid PFDoA [12]	Perfluorotridecanoic acid PFTrDA [13]	Perfluorotetradecanoic acid PFTeDA [14]	Perfluorohexadecanoic acid PFHxDA [16]	Perfluorooctadecanoic acid PFODA [18]
					CAS No.	375-22-4	2706-90-3	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	67905-19-5	16517-11-6
					S-1/GW-1 (ng/g)	na	na	na	0.50	0.72	0.32	0.30	na	na	na	na	na	na
					S-1/GW-3 (ng/g)	na	na	na	300	300	300	300	na	na	na	na	na	na
					S-2/S-3/GW-3 (ng/g)	na	na	na	400	400	400	400	na	na	na	na	na	na
AFFF APPLICATION AREAS	Runway 15/33 MID	RW15-01-S	0-1	410-21749-11	11/19/2020	0.86 U	**0.71**	0.22 U	0.22 U	0.22 U	**0.79**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
			1-2	410-21749-12	11/19/2020	0.81 U	0.20 U	0.20 U	0.20 U	**0.66**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW15-02-S	0-1	410-21749-13	11/19/2020	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			0-1 (DUP)	410-21749-14	11/19/2020	0.89 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
			1-2	410-21749-15	11/19/2020	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW15-03-S	0-2	410-21749-16	11/19/2020	0.88 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
			16-18	410-21749-17	11/19/2020	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			30-32	410-21749-18	11/19/2020	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		RW15-04-S	0-1	410-21749-19	11/19/2020	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			1-2	410-21749-20	11/19/2020	0.86 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	Runway 24 Approach	R24-01-S	0-2	410-21766-24	11/17/2020	0.80 U	**0.22 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			22-24	410-21766-25	11/17/2020	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			46-48	410-21766-26	11/17/2020	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		R24-02-S	0-2	410-21766-10	11/17/2020	0.83 U	**0.24 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			21-23	410-21766-11	11/17/2020	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
			46-48	410-21766-23	11/17/2020	0.87 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		R24-03-S	0-2	410-21766-4	11/17/2020	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			21-23	410-21766-5	11/17/2020	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			46-48	410-21766-6	11/17/2020	0.86 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		R24-04-S	0-2	410-21766-7	11/17/2020	0.81 U	**0.28 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			22-24	410-21766-8	11/17/2020	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			46-48	410-21766-9	11/17/2020	0.88 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	Fuel Farm	FF-1-5	0-1	410-49518-2	7/29/2021	0.82 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**1.20**	**2.30**	**0.50 J**	0.20 U	0.20 U	0.20 U	0.20 U
			2-3	410-49518-3	7/29/2021	0.81 U	**0.20 J**	0.20 U	0.20 U	**0.23 J**	**0.51 J**	**0.83 I**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		FF-2-5	0-1	410-49518-4	7/29/2021	0.82 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.81 I**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			2-3	410-49518-5	7/29/2021	0.84 U	**0.41 J**	**0.36 J**	**0.36 J**	**0.77**	**2.00**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		FF-3-5	0-1	410-49518-6	7/29/2021	0.80 U	**0.30 J**	**0.31 J**	**0.40 J**	**1.10**	**1.70**	**11.00**	**1.70**	**0.62**	**0.23 J**	0.20 U	0.20 U	0.20 U
			2-3	410-49518-7	7/29/2021	0.84 U	**0.39 J**	**0.42 J**	0.21 U	**3.70**	**7.10**	**0.59 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		FF-4-5	0-1	410-49518-8	7/29/2021	0.80 U	0.20 U	0.20 U	**0.21 J**	**0.92**	**1.30**	**8.30**	**1.90**	**0.43 J**	0.20 U	0.20 U	0.20 U	0.20 U
			2-3	410-49518-9	7/29/2021	0.82 U	**0.21 J**	0.21 U	**0.21 J**	**0.53 J**	**5.70**	**2.30**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Additional Investigation Areas	Waterline	WL6-01-S	0-1	410-21766-13	11/16/2020	0.84 U	**0.27 J**	**0.24 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		WL6-02-S	0-1	410-21766-14	11/16/2020	0.87 U	**0.24 J**	**0.42 JI**	0.22 U	**0.44 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		WL6-03-S	0-1	410-21766-15	11/16/2020	0.87 U	**1.0**	**0.65**	0.22 U	**0.48 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		WL6-04-S	0-1	410-21766-16	11/16/2020	0.85 U	**0.52 J**	**0.32 JI**	**0.28 J**	**0.34 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
		WL6-05-S	0-1	410-21766-17	11/16/2020	0.82 U	**0.33 J**	**0.20 J**	**0.21 J**	**0.32 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		WL6-06-S	0-1	410-21766-18	11/16/2020	0.87 U	0.22 U	0.22 U	0.22 U	**0.26 JI**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		WL6-07-S	0-1	410-21766-19	11/16/2020	0.84 U	0.21 U	0.21 U	0.21 U	**0.22 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	Airport Gas Station	AG-01	0-2	410-22051-1	11/20/2020	0.82 U	0.21 U	0.21 U	0.21 U	**0.29 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			6-8	410-22051-2	11/20/2020	0.82 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
			6-8 (DUP)	410-22051-3	11/20/2020	0.82 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			11-13	410-22051-4	11/20/2020	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
			16-18	410-22051-5	11/20/2020	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			21-23	410-22051-6	11/20/2020	0.64 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
			26-28	410-22051-7	11/20/2020	0.81 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			33-35	410-22051-8	11/20/2020	0.92 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
		AG-OF	0-1	410-22051-9	11/20/2020	0.96 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	**0.31 J**	**0.28 J**	0.24 U	0.24 U	0.24 U	0.24 U
			1-2	410-22051-10	11/20/2020	0.95 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	**0.55 J**	**0.46 J**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	Duct Bank Soil Pile	DUCT BANK SOIL	1-2	410-33630-1	3/23/2021	0.79 U	0.20 U	0.20 U	0.20 U	**0.28 J**	0.20 U	0.20 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Runway 24 Stockpile	A-RW24S	1-3	410-37210-28	4/23/2021	0.87 U	**0.44 J**	**0.29 J**	**0.26 J**	**0.48 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
		B-RW24S	1-3	410-37210-34	4/23/2021	0.82 U	**0.54 J**	**0.40 J**	**0.31 J**	**0.42 J**	**0.39 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	Dry Chem Exercise Locations	DC-01-S	0-1	410-37210-19	4/23/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.37 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-37210-20	4/23/2021	0.79 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
		DC-02-S	0-1	410-37210-21	4/23/2021	0.80 U	0.20 U	**0.25 J**	0.20 U	**0.40 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			1-2	410-37210-22	4/23/2021	0.78 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U

Sulfonic Acids / Sulfonamides

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Perfluorobutanesulfonic acid PFBS [4S]	Perfluoropentanesulfonate PFPeS [5S]	Perfluorohexanesulfonic acid PFHxS [6S]	Perfluorooctanesulfonic acid PFOS [8S]	Perfluoroheptanesulfonic acid PFHpS [7S]	Perfluorononanesulfonic acid PFNS [9S]	Perfluorodecanesulfonic acid PFDS [10S]	Perfluorododecanesulfonic acid PFDoS [12S]	Perfluorooctane-sulfonamide PFOSA
		CAS No.	375-73-5	2706-91-4	355-46-4	1763-23-1	375-92-8	68259-12-1	335-77-3	79780-39-5	754-91-6
		S-1/GW-1 (ng/g)	na	na	0.30	2.0	na	na	na	na	na
		S-1/GW-3 (ng/g)	na	na	300	300	na	na	na	na	na
		S-2/S-3/GW-3 (ng/g)	na	na	400	400	na	na	na	na	na
RW15-01-S	0-1	410-21749-11	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	1-2	410-21749-12	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW15-02-S	0-1	410-21749-13	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	0-1 (DUP)	410-21749-14	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	1-2	410-21749-15	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW15-03-S	0-2	410-21749-16	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	16-18	410-21749-17	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	30-32	410-21749-18	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW15-04-S	0-1	410-21749-19	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	1-2	410-21749-20	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
R24-01-S	0-2	410-21766-24	0.40 U	0.20 U	0.20 U	**0.46 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	22-24	410-21766-25	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	46-48	410-21766-26	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
R24-02-S	0-2	410-21766-10	0.42 U	0.21 U	0.21 U	**0.41 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	21-23	410-21766-11	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	46-48	410-21766-23	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
R24-03-S	0-2	410-21766-4	0.40 U	0.20 U	0.20 U	**0.29 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	21-23	410-21766-5	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	46-48	410-21766-6	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
R24-04-S	0-2	410-21766-7	0.40 U	0.20 U	0.20 U	**0.30 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	22-24	410-21766-8	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	46-48	410-21766-9	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
FF-1-5	0-1	410-49518-2	0.41 U	0.20 U	**0.22 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	2-3	410-49518-3	0.41 U	0.20 U	0.20 U	**0.37 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
FF-2-5	0-1	410-49518-4	0.41 U	0.20 U	**0.35 J**	**0.50 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	2-3	410-49518-5	0.42 U	0.21 U	**1.40**	**15.00**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
FF-3-5	0-1	410-49518-6	0.40 U	0.20 U	0.20 U	**0.64**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	2-3	410-49518-7	0.42 U	0.21 U	**0.81**	**48.00**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
FF-4-5	0-1	410-49518-8	0.40 U	0.20 U	0.20 U	**0.64**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	2-3	410-49518-9	0.41 U	0.21 U	0.21 U	**0.76**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
WL6-01-S	0-1	410-21766-13	0.42 U	0.21 U	**0.23 J**	**1.5**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
WL6-02-S	0-1	410-21766-14	0.44 U	0.22 U	**0.25 J**	**1.1**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
WL6-03-S	0-1	410-21766-15	0.43 U	0.22 U	**0.32 J**	**1.7**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
WL6-04-S	0-1	410-21766-16	0.43 U	0.21 U	0.21 U	**0.95**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
WL6-05-S	0-1	410-21766-17	0.41 U	0.20 U	0.20 U	**2.5**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
WL6-06-S	0-1	410-21766-18	0.43 U	0.22 U	0.22 U	**0.98**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
WL6-07-S	0-1	410-21766-19	0.42 U	0.21 U	0.21 U	**0.86**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
AG-01	0-2	410-22051-1	0.41 U	0.21 U	0.21 U	**1.7**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	6-8	410-22051-2	0.41 U	0.21 U	0.21 U	**0.21 JI**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	6-8 (DUP)	410-22051-3	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	11-13	410-22051-4	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	16-18	410-22051-5	0.39 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	21-23	410-22051-6	0.32 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
	26-28	410-22051-7	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	33-35	410-22051-8	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
AG-OF	0-1	410-22051-9	0.48 U	0.24 U	0.24 U	**0.74**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	1-2	410-22051-10	0.48 U	0.24 U	0.24 U	**1.8**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
DUCT BANK SOIL	1-2	410-33630-1	0.40 U	0.20 U	**0.76**	**4.1**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A-RW24S	1-3	410-37210-28	0.43 U	0.22 U	**0.48 J**	**6.4**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
B-RW24S	1-3	410-37210-34	0.41 U	0.21 U	**0.42 J**	**5.0**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
DC-01-S	0-1	410-37210-19	0.40 U	0.20 U	0.20 U	**0.71**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37210-20	0.40 U	0.20 U	0.20 U	**0.35 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DC-02-S	0-1	410-37210-21	0.40 U	0.20 U	**1.2**	**1.8**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-37210-22	0.39 U	0.19 U	**0.25 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U

Perfluoroalkane Sulfonamido Substances / Precursors and Replacement Compounds

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2-Fluorotelomersulfonic acid 4:2 FTS	6:2-Fluorotelomersulfonic acid 6:2 FTS	8:2-Fluorotelomersulfonic acid 8:2 FTS	10:2 Fluorotelomersulfonic acid 10:2 FTS
		CAS No.	2991-50-6	2355-31-9	24448-09-7	31506-32-8	1691-99-2	4151-50-2	13252-13-6	919005-14-4	756426-58-1	763051-92-9	757124-72-4	27619-97-2	39108-34-4	120226-60-0
		S-1/GW-1 (ng/g)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
		S-1/GW-3 (ng/g)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
		S-2/S-3/GW-3 (ng/g)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RW15-01-S	0-1	410-21749-11	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
	1-2	410-21749-12	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW15-02-S	0-1	410-21749-13	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	0-1 (DUP)	410-21749-14	0.22 U	0.22 U	0.56 U	0.56 U	0.56 U	0.56 U	0.45 U	0.22 U	0.22 U	0.22 U	0.67 U	0.67 U	0.67 U	0.67 U
	1-2	410-21749-15	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW15-03-S	0-2	410-21749-16	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
	16-18	410-21749-17	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	30-32	410-21749-18	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
RW15-04-S	0-1	410-21749-19	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
	1-2	410-21749-20	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
R24-01-S	0-2	410-21766-24	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	22-24	410-21766-25	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	46-48	410-21766-26	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
R24-02-S	0-2	410-21766-10	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	21-23	410-21766-11	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
	46-48	410-21766-23	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
R24-03-S	0-2	410-21766-4	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	21-23	410-21766-5	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	46-48	410-21766-6	0.21 U	0.21 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
R24-04-S	0-2	410-21766-7	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	22-24	410-21766-8	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	46-48	410-21766-9	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
FF-1-5	0-1	410-49518-2	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	**0.61 J**
	2-3	410-49518-3	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
FF-2-5	0-1	410-49518-4	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	**0.61 J**
	2-3	410-49518-5	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
FF-3-5	0-1	410-49518-6	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	**0.72 J**	**34.00**	**8.30**
	2-3	410-49518-7	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	**1.50 J**	0.63 U	0.63 U
FF-4-5	0-1	410-49518-8	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	**48.00**	**5.40**
	2-3	410-49518-9	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	**0.65 J**	**3.30**	0.62 U
WL6-01-S	0-1	410-21766-13	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
WL6-02-S	0-1	410-21766-14	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	0.44 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
WL6-03-S	0-1	410-21766-15	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
WL6-04-S	0-1	410-21766-16	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
WL6-05-S	0-1	410-21766-17	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
WL6-06-S	0-1	410-21766-18	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
WL6-07-S	0-1	410-21766-19	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
AG-01	0-2	410-22051-1	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	6-8	410-22051-2	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
	6-8 (DUP)	410-22051-3	0.20 U	0.2 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	11-13	410-22051-4	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
	16-18	410-22051-5	0.20 U	0.2 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
	21-23	410-22051-6	0.16 U	0.16 U	0.40 U	0.40 U	0.40 U	0.40 U	0.32 U	0.16 U	0.16 U	0.16 U	0.48 U	0.48 U	0.48 U	0.48 U
	26-28	410-22051-7	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
	33-35	410-22051-8	0.23 U	0.23 U	0.57 U	0.57 U	0.57 U	0.57 U	0.46 U	0.23 U	0.23 U	0.23 U	0.69 U	0.69 U	0.69 U	0.69 U
AG-OF	0-1	410-22051-9	0.24 U	0.24 U	0.60 U	0.60 U	0.60 U	0.60 U	0.48 U	0.24 U	0.24 U	0.24 U	0.72 U	0.72 U	0.72 U	0.72 U
	1-2	410-22051-10	0.24 U	0.24 U	0.59 U	0.59 U	0.59 U	0.59 U	0.48 U	0.24 U	0.24 U	0.24 U	0.71 U	0.71 U	0.71 U	0.71 U
DUCT BANK SOIL	1-2	410-33630-1	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
A-RW24S	1-3	410-37210-28	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
B-RW24S	1-3	410-37210-34	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
DC-01-S	0-1	410-37210-19	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-37210-20	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
DC-02-S	0-1	410-37210-21	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
	1-2	410-37210-22	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U

Definitions:
[4] = Number of fluorinated carbon chains for perfluorinated carboxylic acids
[4S] = Number of fluorinated carbon chains for perfluorinated sulfonates
ng/g = nanograms per gram is equivalent to parts per billion
CAS No. = Chemical Abstract Service registry number
PFAS = per- and polyfluoroalkyl substances
MDL = method detection limit
U = analyte not detected above the MDL
J = analyte detected at or above the MDL at an estimated concentration
I = analyte detected at an estimated maximum possible concentration
ft bgs = feet below ground surface
DUP = duplicate sample
*+ = laboratory reported LCS and/or LCSD as outside of acceptance limits, high biased
B = Compound was detected in both the blank and the sample

Notes:
Bold font indicates compound detected above the MDL.
Gray shading indicates detected concentration meets or exceeds S-1/GW-1.
FONT Black shading with white font represents concentrations greater than 10 times the S-1/GW-1 crieria.
FONT Red shading with black font represents concentrations meet or exceed S-1/S-2/S-3/GW-3 crieria.
Blue shading indicates compound is regulated by the Massachusetts Department of Environmental Protection.

Table 4
Summary of PFAS in Groundwater and Other Data
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA
Release Tracking Number 2-28219

		Subgroup	Carboxylic Acids													Sulfonates / Sulfonic Acids / Sulfonamides								
		Analyte	Perfluorobutanoic acid	Perfluoropentanoic acid	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorohexadecanoic acid	Perfluorooctadecanoic acid	Perfluorobutanesulfonic acid	Perfluoropentanesulfonate	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	Perfluoroheptanesulfonic acid	Perfluorononanesulfonic acid	Perfluorodecanesulfonic acid	Perfluorododecanesulfonic acid	Perfluorooctanesulfonamide
		Acronym	PFBA [4]	PFPeA [5]	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFUnA [11]	PFDoA [12]	PFTrDA [13]	PFTeDA [14]	PFHxDA [16]	PFODA [18]	PFBS [4S]	PFPeS [5S]	PFHxS [6S]	PFOS [8S]	PFHpS [7S]	PFNS [9S]	PFDS [10S]	PFDoS [12S]	PFOSA
		CAS No.	375-22-4	2706-90-3	307-24-4	375-85-9	335-67-1	375-95-1	335-76-2	2058-94-8	307-55-1	72629-94-8	376-06-7	67905-19-5	16517-11-6	375-73-5	2706-91-4	355-46-4	1763-23-1	375-92-8	68259-12-1	335-77-3	79780-39-5	754-91-6
		RCGW-1 (ng/L)	na	na	na	20	20	20	20	na	na	na	na	na	na	na	na	20	20	na	na	na	na	na
Sample Location ID	**Laboratory ID**	**Date Sampled**																						
ACK-01	1263643	2/18/2020	1.7 U	**2.3**	**8.5**	**1.4 J**	**1.3 J**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.85 U	0.85 U	**3.2**	**5.6**	**57**	**1.9**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACK-06	*ns*	2/18/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACK-08	1263639	2/17/2020	1.7 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.85 U	0.85 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
ACK-09	1263640	2/18/2020	1.7 U	**0.88 J**	**0.71 J**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.85 U	0.85 U	0.43 U	**0.49 J**	**5.6**	**2.9**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
	1263641 (DUP)	2/18/2020	1.7 U	**0.84 J**	**0.62 J**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.86 U	0.86 U	0.43 U	**0.45 J**	**5.2**	**2.7**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
ACK-10	410-21766-21	11/16/2020	-	-	**480**	**260**	**220**	**110**	**7.0**	0.44 U	0.44 U	0.44 U	0.44 U	-	-	**3.0**	-	**32**	**56**	-	-	-	-	-
ACK-11	1263642	2/18/2020	**2.7 J**	**6.1**	**8.7**	**3.2**	**5.6**	**0.96 J**	**0.47 J**	0.43 U	0.43 U	0.43 U	0.43 U	0.87 U	0.87 U	**2.2**	**2.4**	**54**	**36**	**1.4 J**	0.43 U	0.43 U	0.43 U	0.43 U
ACK-14	410-21766-2	11/16/2020	-	-	**21**	**18**	**37**	**1.4 J**	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	-	-	**7.7**	-	**11**	**12**	-	-	-	-	-
ACK-15	410-22051-28	11/20/2020	1.8 U	**1.3 J**	**0.97 J**	**1.5 J**	**4.6**	**2.6**	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.89 U	0.89 U	**1.1 J**	0.45 U	**1.1 J**	**24**	0.45 U	0.45 U	0.45 U	0.45 U	**0.76 J**
AG-01-GW	410-22051-24	11/20/2020	**6.5**	**4.2**	**5.0**	**3.8**	**8.1**	**1.8**	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.92 U	**39**	**2.1**	**21**	**6.8**	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
AG-02-GW	410-22051-25	11/20/2020	**7.9**	0.46 U	**2.2**	**3.5**	**6.3**	**2.4**	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.91 U	0.91 U	**7.9**	0.46 U	**2.2**	**15**	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
NOR-01-GW-65-67	410-41740-1	5/23/2021	4.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U
NOR-02-GW-65-67	410-41740-2	5/23/2021	**50**	**75**	**260**	**84**	**160**	**27**	**29**	**3.4**	**2.0**	1.7 U	1.7 U	2.6 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U
NOR-03-GW-65-67	410-41740-3	5/23/2021	**180**	**880**	**740**	**23**	**4.2**	1.7 U	**1.7**	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U
NOR-05-GW-38-40	410-41740-4	5/24/2021	4.3 U	**5.1**	**8.1**	**5.8**	**7.3**	**3.2**	**3.2**	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U	1.7 U	1.7 U	**8.2**	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U
NOR-06-GW-43-45	410-41740-5	5/25/2021	4.3 U	**5.5**	**7.2**	**3.3**	**4.4**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U	**5.3**	1.7 U	**8.4**	**2.1 J**	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U *+
PK-01-GW-33-35	410-41740-6	5/25/2021	4.5 U	**4.8**	**8.5**	**7.9**	**17**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U	**3.6**	1.8 U	**15**	**2.6 J**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
PK-02-GW-33-35	410-41740-7	5/25/2021	4.3 U	1.7 U	**1.8**	1.7 U	**8.1**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U	**7.8**	**2.4**	**45**	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U *+
PK-03-GW-35-37	410-41740-8	5/25/2021	4.3 U	1.7 U	**2.7**	1.7 U	**3.3**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U	1.7 U	1.7 U	**8.2**	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U
PK-04-GW-40-42	410-41740-9	5/26/2021	4.4 U	1.8 U	**3.3**	**2.5**	**4.5**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U	**2.3**	1.8 U	**4.7**	**3.8**	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U *+
PK-05-GW-43-45	410-41740-10	5/26/2021	4.4 U	**1.8**	**2.4**	**2.0**	**9.6**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U	**14**	1.8 U	**2.0**	**9.7**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U *+
PK-06-GW-43-45	410-41740-11	5/26/2021	4.2 U	**2.2**	**2.5**	**1.8**	**6.0**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.5 U	2.5 U	**2.5**	1.7 U	**2.7**	**7.1**	1.7 U	1.7 U	1.7 U	2.5 U	1.7 U *+
PK-07-GW-40-42	410-41740-12	5/26/2021	4.5 U	**4.5**	**4.1**	**2.8**	**4.0**	**1.8**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U	1.8 U	1.8 U	1.8 U	**5.7**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U *+
RW6-47-GW-18-20	410-40917-27	5/18/2021	1.8 U	**2.1**	**2.8**	**1.1 J**	**2.0**	**0.78 J**	**1.4 J**	1.8 U	0.44 U	0.44 U	0.44 U	0.88 U	0.88 U	0.44 U	0.44 U	**30**	**30**	0.44 U	0.44 U	0.44 U	0.44 U	**2.6**
RW6-49-GW-13-15	410-40917-31	5/18/2021	**81**	**300**	**250**	**180**	**88**	**2.8**	0.43 U	1.7 U	0.43 U	0.43 U	0.43 U	0.86 U	0.86 U	**11**	**29**	**450**	**120**	**28**	0.43 U	0.43 U	0.43 U	**1.2 J**
RW6-66-GW	410-41731-1	5/21/2021	1.7 U	**1.4 J**	**2.2**	**0.6 J**	**0.94 J**	**0.43 J**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.87 U	0.87 U	**0.44 J**	**0.58 J**	**7.7**	**1.1 J**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
RW6-67-GW	410-41731-2	5/21/2021	**3.3 J**	**12**	**15**	**2.1**	**3.5**	**1.2 J**	**1.2 J**	**0.52 J**	0.43 U	0.43 U	0.43 U	0.85 U	0.85 U	0.43 U	0.43 U	**5.9**	**4.7**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
SRB-08-GW-37-39	410-40917-22	5/18/2021	**7.1**	**20**	**21**	**11**	**12**	**5.6**	**2.1**	**2.3 J**	0.43 U	0.43 U	0.43 U	0.85 U	0.85 U	**3.0**	**1.1 J**	**42**	**180**	**1.7**	0.43 U	0.43 U	0.43 U	**1.1 J**
SRB-08-GW-37-39 DUP	410-40917-23	5/18/2021	**7.1**	**18**	**20**	**10**	**12**	**5.5**	**2.5**	**2.4 J**	0.44 U	0.44 U	0.44 U	0.87 U	0.87 U	**3.0**	**1.1 J**	**39**	**190**	**1.7**	0.44 U	0.44 U	0.44 U	**1.0 J**
SRE-05-GW-43-45	410-41740-13	5/25/2021	**6.2**	**20 J**	**14**	**6.3**	**3.0**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U	1.7 U	1.7 U	**5.1**	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U *+
SRE-05-GW-43-45 DUP	410-41740-14	5/25/2021	**4.4**	**14 J**	**12**	**5.4**	**4.0**	**1.7**	**1.9**	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U	1.7 U	1.7 U	**3.9**	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U *+
SRJ-39-GW-23-27	410-40917-21	5/18/2021	**56**	**86**	**56**	**71**	**53**	**10**	**2.1**	**1.8 U**	0.45 U	0.45 U	0.45 U	0.89 U	0.89 U	**0.48 J**	0.45 U	**7.9**	**69**	**0.73 J**	0.45 U	0.45 U	0.45 U	**2.4**
SRJ-55-GW	410-41731-3	5/22/2021	1.7 U	**2.6**	**3.9**	**4.1**	**3.6**	**1.5 J**	**4.6**	**3.1**	0.44 U	0.44 U	0.44 U	0.87 U	0.87 U	**4.1**	0.44 UJ	**2.9**	**5.9**	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
SRJ-56-GW	410-41731-4	5/22/2021	**2.2 J**	**7.7**	**5.7**	**2.7**	**0.9 J**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.87 U	0.87 U	**1.4 J**	0.43 UJ	**0.94 J**	**2.5**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
SRJ-57-GW	410-41731-5	5/24/2021	**82**	**310**	**280**	**140**	**140**	**17**	**1.4 J**	0.43 U	0.43 U	0.43 U	0.43 U	0.85 U	0.85 U	**27**	**57**	**1200**	**390**	**19**	**2.1 I**	0.43 U	0.43 U	**1.7**
FUEL FARM PERFORMANCE SAMPLES																								
FFGAC-EFF	410-48581-12	7/22/2021	-	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	-	-	1.8 U	-	1.8 U	1.8 U	-	-	-	-	-
FFGAC-MID	410-48581-13	7/22/2021	-	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	-	-	1.8 U	-	1.8 U	1.8 U	-	-	-	-	-
FFGAC-INF	410-48581-14	7/22/2021	-	-	**200**	**170**	**490**	**160**	**200**	**66**	**58**	**24** *3	**21** *3	-	-	**9.5**	-	**1.8**	**5.2**	-	-	-	-	-
FFGAC-INF DUP	410-48581-15	7/22/2021	-	-	**190**	**160**	**490**	**170**	**210**	**67**	**63**	**25** *3	**21** *3	-	-	**9.7**	-	**1.9**	**5.2**	-	-	-	-	-
IRRIGATION WELL SAMPLES																								
IW-DF	410-48581-11	7/22/2021	-	-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	-	-	1.6 U	-	1.6 U	1.6 U	-	-	-	-	-
IW-PL	410-48581-9	7/22/2021	-	-	**9.8**	**2.0**	**7.1**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	-	-	**1.8**	-	**34**	**22**	-	-	-	-	-
IW-SP	410-48581-10	7/22/2021	-	-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	-	-	1.6 U	-	1.6 U	1.6 U	-	-	-	-	-
FIELD QUALITY CONTROL SAMPLES																								
EQUIP BLANKS	1263638	2/17/2020	1.8 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
	410-21766-20	11/16/2020	-	-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	-	-	0.44 U	-	0.44 U	0.44 U	-	-	-	-	-
	410-40917-2	5/17/2021	1.8 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.91 U	0.91 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
	410-41740-15	5/21/2021	4.4 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
	410-41740-16	5/21/2021	4.2 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.5 U	2.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.5 U	1.7 U
FIELD BLANK	1263637	2/17/2020 (Kanarek)	1.7 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.83 U	0.83 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
	410-21766-12	11/16/2020 (Kenney)	-	-	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	-	-	0.45 U	-	0.45 U	0.45 U	-	-	-	-	-
	410-40917-1	5/17/2021 (Kenney)	1.7 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1.7 U	0.41 U	0.41 U	0.41 U	0.83 U	0.83 U	0.41 U	0.41 U	0.41 U	**0.4 J**	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
	410-40917-20	5/18/2021 (Kenney)	1.6 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1.6 U	0.41 U	0.41 U	0.41 U	0.82 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
	410-48581-19	7/22/2021	-	-	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	-	-	-	-	-
TRIP BLANK	1263636	2/11/2020	1.7 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.83 U	0.83 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
	410-21766-29	11/17/2020	-	-	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	-	-	0.45 U	-	0.45 U	0.45 U	-	-	-	-	-
	410-40917-32	5/18/2021	1.8 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.92 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
	410-41731-13	5/21/2021	1.8 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.92 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
	410-48581-20	7/22/2021	-	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	-	-	1.8 U	-	1.8 U	1.8 U	-	-	-	-	-

Table 4
Summary of PFAS in Groundwater and Other Data
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA
Release Tracking Number 2-28219

	Subgroup	Perfluoroalkane Sulfonamido Substances						Precursors and Replacement Compounds							
	Analyte	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2-Fluorotelomersulfonic acid	6:2-Fluorotelomersulfonic acid	8:2-Fluorotelomersulfonic acid	10:2 Fluorotelomersulfonic acid
	Acronym	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2 FTS	6:2 FTS	8:2 FTS	10:2 FTS
	CAS No.	2991-50-6	2355-31-9	24448-09-7	31506-32-8	1691-99-2	4151-50-2	13252-13-6	919005-14-4	756426-58-1	763051-92-9	757124-72-4	27619-97-2	39108-34-4	120226-60-0
	RCGW-1 (ng/L)	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Sample Location ID	**Laboratory ID**	**Date Sampled**													
ACK-01	1263643	2/18/2020	0.42 U	0.51 U	0.85 U	0.85 U	0.85 U	0.85 U	0.42 U	0.42 U	0.42 U	0.42 U	**1.3 J**	1.7 U	0.85 U	0.85 U
ACK-06	*ns*	2/18/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACK-08	1263639	2/17/2020	0.43 U	0.51 U	0.85 U	0.85 U	0.85 U	0.85 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.7 U	0.85 U	0.85 U
ACK-09	1263640	2/18/2020	0.43 U	0.51 U	0.85 U	0.85 U	0.85 U	0.85 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.7 U	0.85 U	0.85 U
	1263641 (DUP)	2/18/2020	0.43 U	0.52 U	0.86 U	0.86 U	0.86 U	0.86 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.7 U	0.86 U	0.86 U
ACK-10	410-21766-21	11/16/2020	0.44 U	0.44 U	-	-	-	-	-	-	-	-	-	-	-	-
ACK-11	1263642	2/18/2020	0.43 U	0.52 U	0.87 U	0.87 U	0.87 U	0.87 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.7 U	0.87 U	0.87 U
ACK-14	410-21766-2	11/16/2020	0.47 U	0.47 U	-	-	-	-	-	-	-	-	-	-	-	-
ACK-15	410-22051-28	11/20/2020	0.45 U	0.54 U	0.89 U	0.89 U	0.89 U	0.89 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	**22**	0.89 U	0.89 U
AG-01-GW	410-22051-24	11/20/2020	0.46 U	0.55 U	0.92 U	0.92 U	0.92 U	0.92 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.92 U
AG-02-GW	410-22051-25	11/20/2020	0.46 U	0.55 U	0.92 U	0.92 U	0.92 U	0.92 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.8 U	0.91 U	0.91 U
NOR-01-GW-65-67	410-41740-1	5/23/2021	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.3 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	2.6 U	4.3 U
NOR-02-GW-65-67	410-41740-2	5/23/2021	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.3 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	**29**	**19**	4.3 U
NOR-03-GW-65-67	410-41740-3	5/23/2021	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.4 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	4.4 U	2.6 U	4.4 U
NOR-05-GW-38-40	410-41740-4	5/24/2021	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.3 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	2.6 U	4.3 U
NOR-06-GW-43-45	410-41740-5	5/25/2021	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.3 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	2.6 U	4.3 U
PK-01-GW-33-35	410-41740-6	5/25/2021	2.7 U	1.8 U	2.7 U	2.7 U	2.7 U	4.5 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.5 U	2.7 U	4.5 U
PK-02-GW-33-35	410-41740-7	5/25/2021	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.3 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	2.6 U	4.3 U
PK-03-GW-35-37	410-41740-8	5/25/2021	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.3 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	2.6 U	4.3 U
PK-04-GW-40-42	410-41740-9	5/26/2021	2.6 U	1.8 U	2.6 U	2.6 U	2.6 U	4.4 U	2.6 U	1.8 U	1.8 U	1.8 U	1.8 U	4.4 U	2.6 U	4.4 U
PK-05-GW-43-45	410-41740-10	5/26/2021	2.7 U	1.8 U	2.7 U	2.7 U	2.7 U	4.4 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.4 U	2.7 U	4.4 U
PK-06-GW-43-45	410-41740-11	5/26/2021	2.5 U	1.7 U	2.5 U	2.5 U	2.5 U	4.2 U	2.5 U	1.7 U	1.7 U	1.7 U	1.7 U	4.2 U	2.5 U	4.2 U
PK-07-GW-40-42	410-41740-12	5/26/2021	2.7 U	1.8 U	2.7 U	2.7 U	2.7 U	4.5 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.5 U	2.7 U	4.5 U
RW6-47-GW-18-20	410-40917-27	5/18/2021	0.44 U	0.53 U	0.88 U	0.88 U *1	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	**2.9 J**	**3.3**	0.88 U
RW6-49-GW-13-15	410-40917-31	5/18/2021	0.43 U	0.52 U	0.86 UJ	0.86 R	0.86 UJ	0.86 UJ	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	**550**	0.86 U	0.86 U
RW6-66-GW	410-41731-1	5/21/2021	0.43 U	0.52 U	0.87 U	0.87 U	0.87 U	0.87 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.7 U	0.87 U	0.87 U
RW6-67-GW	410-41731-2	5/21/2021	0.43 U	0.51 U	0.85 U	0.85 U	0.85 U	0.85 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.7 U	**0.87 J**	0.85 U
SRB-08-GW-37-39	410-40917-22	5/18/2021	0.43 U	0.51 U	0.85 U	0.85 U *1	0.85 U	0.85 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	**12**	0.85 U	0.85 U
SRB-08-GW-37-39 DUP	410-40917-23	5/18/2021	0.44 U	0.52 U	0.87 U	0.87 U *1	0.87 U	0.87 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	**9.8**	0.87 U	0.87 U
SRE-05-GW-43-45	410-41740-13	5/25/2021	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.3 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.6**	2.6 U	4.3 U
SRE-05-GW-43-45 DUP	410-41740-14	5/25/2021	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.3 U	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.7**	2.6 U	4.3 U
SRJ-39-GW-23-27	410-40917-21	5/18/2021	0.45 U	0.53 U	0.89 UJ	0.89 UJ	0.89 UJ	0.89 UJ	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	**26**	**7.5**	0.89 U
SRJ-55-GW	410-41731-3	5/22/2021	0.44 U	0.52 U	0.87 U	0.87 U	0.87 U	0.87 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.7 U	**1 J**	**0.91 J**
SRJ-56-GW	410-41731-4	5/22/2021	0.43 U	0.52 U	0.87 U	0.87 U	0.87 U	0.87 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.7 U	0.87 U	0.87 U
SRJ-57-GW	410-41731-5	5/24/2021	0.43 U	0.51 U	0.85 U	0.85 U	0.85 U	0.85 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	**56**	0.85 U	0.85 U
FUEL FARM PERFORMANCE SAMPLES																
FFGAC-EFF	410-48581-12	7/22/2021	1.8 U	1.8 U	-	-	-	-	-	-	-	-	-	-	-	-
FFGAC-MID	410-48581-13	7/22/2021	1.8 U	1.8 U	-	-	-	-	-	-	-	-	-	-	-	-
FFGAC-INF	410-48581-14	7/22/2021	1.7 U *3	1.7 U *3	-	-	-	-	-	-	-	-	-	-	-	-
FFGAC-INF DUP	410-48581-15	7/22/2021	1.7 U *3	1.7 U *3	-	-	-	-	-	-	-	-	-	-	-	-
IRRIGATION WELL SAMPLES																
IW-DF	410-48581-11	7/22/2021	1.6 U	1.6 U	-	-	-	-	-	-	-	-	-	-	-	-
IW-PL	410-48581-9	7/22/2021	1.6 U	1.6 U	-	-	-	-	-	-	-	-	-	-	-	-
IW-SP	410-48581-10	7/22/2021	1.6 U	1.6 U	-	-	-	-	-	-	-	-	-	-	-	-
FIELD QUALITY CONTROL SAMPLES																
EQUIP BLANKS	1263638	2/17/2020	0.44 U	0.53 U	0.88 U	0.88 U	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.8 U	0.88 U	0.88 U
	410-21766-20	11/16/2020	0.44 U	0.44 U	-	-	-	-	-	-	-	-	-	-	-	-
	410-40917-2	5/17/2021	0.46 U	0.55 U	0.91 UJ	0.91 R	0.91 UJ	0.91 R	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.8 U	0.91 U	0.91 U
	410-41740-15	5/21/2021	2.7 U	1.8 U	2.7 U	2.7 U	2.7 U	4.4 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.4 U	2.7 U	4.4 U
	410-41740-16	5/21/2021	2.5 U	1.7 U	2.5 U	2.5 U	2.5 U	4.2 U	2.5 U	1.7 U	1.7 U	1.7 U	1.7 U	4.2 U	2.5 U	4.2 U
FIELD BLANK	1263637	2/17/2020 (Kanarek)	0.42 U	0.5 U	0.83 U	0.83 U	0.83 U	0.83 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	1.7 U	0.83 U	0.83 U
	410-21766-12	11/16/2020 (Kenney)	0.45 U	0.45 U	-	-	-	-	-	-	-	-	-	-	-	-
	410-40917-1	5/17/2021 (Kenney)	0.41 U	0.5 U	0.83 UJ	0.83 UJ	0.83 U	0.83 UJ	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1.7 U	0.83 U	0.83 U
	410-40917-20	5/18/2021 (Kenney)	0.41 U	0.49 U	0.82 UJ	0.82 R	0.82 UJ	0.82 R	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1.6 U	0.82 U	0.82 U
	410-48581-19	7/22/2021	1.9 U	1.9 U	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	1263636	2/11/2020	0.41 U	0.5 U	0.83 U	0.83 U	0.83 U	0.83 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1.7 U	0.83 U	0.83 U
	410-21766-29	11/17/2020	0.45 U	0.45 U	-	-	-	-	-	-	-	-	-	-	-	-
	410-40917-32	5/18/2021	0.46 U	0.55 U	0.92 U	0.92 U	0.92 U	0.92 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.8 U	0.92 U	0.92 U
	410-41731-13	5/21/2021	0.46 U	0.55 U	0.92 U	0.92 U	0.92 U	0.92 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.8 U	0.92 U	0.92 U
	410-48581-20	7/22/2021	1.8 U	1.8 U	-	-	-	-	-	-	-	-	-	-	-	-

Table 4
Summary of PFAS in Groundwater and Other Data
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA
Release Tracking Number 2-28219

Definitions and Notes:

[4] = Number of fluorinated carbon chains for perfluorinated carboxylic acids

[4S] = Number of fluorinated carbon chains for perfluorinated sulfonates

ng/L = nanogram per liter, equivalent to parts per trillion

CAS No. = Chemical Abstract Service registry number

na = not applicable/standard has not been established

-- = Analysis not conducted

PFAS = per- and polyfluoroalkyl substances

DUP = duplicate sample

RCGW-1 = Reportable Concentrations in Groundwater, cleanup standard for areas protected for current or future use as drinking water sources

ns = location not sampled due to dry conditions

U = Not detected.

J = Estimated value is greater than or equal to the Method Detection Limit and less than the reporting limit.

I = Value is EMPC (estimated maximum possible concentration).

H = Holding time exceeded.

E = Result exceeded calibration range.

*- = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits, low biased.

*+ = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits, high biased.

Gray shading indicates detected concentration meets or exceeds RCGW-1 criteria.

Black shading with white font indicates detected concentration exceeds RCGW-1 criteria by 10x.

The laboratory reported the data to the method detection limit rather than the reporting detection limit.

PFAS6 = Massachusetts Department of Environmental Protection regulates six PFAS compounds including PFHpA, PFOA, PFNA, PFDA, PFHxS, and PFOS.

ATTACHMENT 1

LABORATORY ANALYTICAL DATA

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-46523-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
7/16/2021 12:42:14 PM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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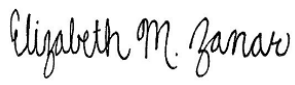

Elizabeth Zanar
Project Manager
7/16/2021 12:42:14 PM

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Client: Weston Solutions, Inc.
Job ID: 410-46523-1
Project/Site: Nantucket

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-46523-1

Job ID: 410-46523-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-46523-1

Receipt

The samples were received on 7/9/2021 10:46 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

LCMS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-46523-1

Client Sample ID: CCB-0721-EFF — Lab Sample ID: 410-46523-1

No Detections.

Client Sample ID: CCB-0721-MID — Lab Sample ID: 410-46523-2

No Detections.

Client Sample ID: CCB-0721-INF — Lab Sample ID: 410-46523-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	34		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	12		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	17		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL	110		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	230		17		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-0721 — Lab Sample ID: 410-46523-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: CCB-0721-EFF

Lab Sample ID: 410-46523-1

Date Collected: 07/08/21 11:15

Matrix: Drinking Water

Date Received: 07/09/21 10:46

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
NEtFOSAA	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
NMeFOSAA	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:59*	*1*
13C2 PFDA	*94*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:59*	*1*
13C2 PFHxA	*94*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:59*	*1*

Client Sample ID: CCB-0721-MID

Lab Sample ID: 410-46523-2

Date Collected: 07/08/21 11:17

Matrix: Drinking Water

Date Received: 07/09/21 10:46

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
NEtFOSAA	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
NMeFOSAA	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/12/21 07:02	07/14/21 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*80*		*70 - 130*	*07/12/21 07:02*	*07/14/21 02:11*	*1*
13C2 PFDA	*79*		*70 - 130*	*07/12/21 07:02*	*07/14/21 02:11*	*1*
13C2 PFHxA	*81*		*70 - 130*	*07/12/21 07:02*	*07/14/21 02:11*	*1*

Client Sample ID: CCB-0721-INF

Date Collected: 07/08/21 11:19
Date Received: 07/09/21 10:46

Lab Sample ID: 410-46523-3

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**34**		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
Perfluoroheptanoic acid	**12**		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
Perfluorooctanoic acid	**17**		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
NEtFOSAA	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
NMeFOSAA	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/12/21 07:02	07/14/21 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*83*		*70 - 130*	*07/12/21 07:02*	*07/14/21 02:22*	*1*
13C2 PFDA	*100*		*70 - 130*	*07/12/21 07:02*	*07/14/21 02:22*	*1*
13C2 PFHxA	*87*		*70 - 130*	*07/12/21 07:02*	*07/14/21 02:22*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	**110**		17		ng/L		07/12/21 07:02	07/14/21 15:08	10
Perfluorooctanesulfonic acid	**230**		17		ng/L		07/12/21 07:02	07/14/21 15:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*07/12/21 07:02*	*07/14/21 15:08*	*10*
13C2 PFDA	*86*		*70 - 130*	*07/12/21 07:02*	*07/14/21 15:08*	*10*
13C2 PFHxA	*75*		*70 - 130*	*07/12/21 07:02*	*07/14/21 15:08*	*10*

Client Sample ID: FB-0721

Date Collected: 07/08/21 11:30
Date Received: 07/09/21 10:46

Lab Sample ID: 410-46523-4

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluorononanoic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
NEtFOSAA	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
NMeFOSAA	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		07/12/21 07:02	07/14/21 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*07/12/21 07:02*	*07/14/21 02:34*	*1*

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-46523-1

Client Sample ID: FB-0721
Date Collected: 07/08/21 11:30
Date Received: 07/09/21 10:46

Lab Sample ID: 410-46523-4
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	94		70 - 130	07/12/21 07:02	07/14/21 02:34	1
13C2 PFHxA	89		70 - 130	07/12/21 07:02	07/14/21 02:34	1

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-46523-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		d5NEFOS	PFDA	PFHxA						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)						
410-46523-1	CCB-0721-EFF	89	94	94						
410-46523-2	CCB-0721-MID	80	79	81						
410-46523-3	CCB-0721-INF	83	100	87						
410-46523-3 - DL	CCB-0721-INF	86	86	75						
410-46523-4	FB-0721	85	94	89						
LCS 410-147135/2-A	Lab Control Sample	102	100	95						
LCSD 410-147135/3-A	Lab Control Sample Dup	92	101	86						
MB 410-147135/1-A	Method Blank	105	109	106						

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFDA = 13C2 PFDA

PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-147135/1-A
Matrix: Drinking Water
Analysis Batch: 147828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorononanoic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
NEtFOSAA	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
NMeFOSAA	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*105*		*70 - 130*	*07/12/21 07:02*	*07/14/21 00:27*	*1*
13C2 PFDA	*109*		*70 - 130*	*07/12/21 07:02*	*07/14/21 00:27*	*1*
13C2 PFHxA	*106*		*70 - 130*	*07/12/21 07:02*	*07/14/21 00:27*	*1*

Lab Sample ID: LCS 410-147135/2-A
Matrix: Drinking Water
Analysis Batch: 147828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	19.1		ng/L		93	70 - 130
Perfluoroheptanoic acid	20.5	20.5		ng/L		100	70 - 130
Perfluorooctanoic acid	20.5	21.2		ng/L		104	70 - 130
Perfluorononanoic acid	20.5	20.7		ng/L		101	70 - 130
Perfluorodecanoic acid	20.5	21.2		ng/L		103	70 - 130
Perfluorotridecanoic acid	20.5	20.9		ng/L		102	70 - 130
Perfluorotetradecanoic acid	20.5	21.1		ng/L		103	70 - 130
Perfluorobutanesulfonic acid	18.1	14.2		ng/L		78	70 - 130
Perfluorohexanesulfonic acid	18.7	17.5		ng/L		94	70 - 130
Perfluorooctanesulfonic acid	19.0	18.4		ng/L		97	70 - 130
NEtFOSAA	20.5	19.5		ng/L		95	70 - 130
NMeFOSAA	20.5	19.3		ng/L		94	70 - 130
Perfluoroundecanoic acid	20.5	20.6		ng/L		101	70 - 130
Perfluorododecanoic acid	20.5	20.6		ng/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*102*		*70 - 130*
13C2 PFDA	*100*		*70 - 130*
13C2 PFHxA	*95*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-147135/3-A
Matrix: Drinking Water
Analysis Batch: 147828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147135

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	17.4		ng/L		85	70 - 130	9	30
Perfluoroheptanoic acid			20.5	20.0		ng/L		98	70 - 130	2	30
Perfluorooctanoic acid			20.5	20.1		ng/L		98	70 - 130	6	30
Perfluorononanoic acid			20.5	19.6		ng/L		96	70 - 130	5	30
Perfluorodecanoic acid			20.5	21.1		ng/L		103	70 - 130	0	30
Perfluorotridecanoic acid			20.5	19.0		ng/L		93	70 - 130	10	30
Perfluorotetradecanoic acid			20.5	19.1		ng/L		93	70 - 130	10	30
Perfluorobutanesulfonic acid			18.1	13.4		ng/L		74	70 - 130	6	30
Perfluorohexanesulfonic acid			18.7	17.3		ng/L		93	70 - 130	1	30
Perfluorooctanesulfonic acid			19.0	17.7		ng/L		93	70 - 130	4	30
NEtFOSAA			20.5	18.7		ng/L		91	70 - 130	4	30
NMeFOSAA			20.5	19.2		ng/L		94	70 - 130	0	30
Perfluoroundecanoic acid			20.5	17.9		ng/L		87	70 - 130	14	30
Perfluorododecanoic acid			20.5	19.3		ng/L		94	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*92*		*70 - 130*
13C2 PFDA	*101*		*70 - 130*
13C2 PFHxA	*86*		*70 - 130*

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-46523-1

LCMS

Prep Batch: 147135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-46523-1	CCB-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-46523-2	CCB-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-46523-3	CCB-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-46523-3 - DL	CCB-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-46523-4	FB-0721	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-147135/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-147135/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-147135/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 147828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-46523-1	CCB-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	147135
410-46523-2	CCB-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	147135
410-46523-3	CCB-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	147135
410-46523-4	FB-0721	Total/NA	Drinking Water	EPA 537 Ver 1.1	147135
MB 410-147135/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	147135
LCS 410-147135/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	147135
LCSD 410-147135/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	147135

Analysis Batch: 148074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-46523-3 - DL	CCB-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	147135

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-46523-1

Client Sample ID: CCB-0721-EFF

Lab Sample ID: 410-46523-1

Date Collected: 07/08/21 11:15

Matrix: Drinking Water

Date Received: 07/09/21 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			147135	07/12/21 07:02	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	147828	07/14/21 01:59	Y6ZN	ELLE

Client Sample ID: CCB-0721-MID

Lab Sample ID: 410-46523-2

Date Collected: 07/08/21 11:17

Matrix: Drinking Water

Date Received: 07/09/21 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			147135	07/12/21 07:02	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	147828	07/14/21 02:11	Y6ZN	ELLE

Client Sample ID: CCB-0721-INF

Lab Sample ID: 410-46523-3

Date Collected: 07/08/21 11:19

Matrix: Drinking Water

Date Received: 07/09/21 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			147135	07/12/21 07:02	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	147828	07/14/21 02:22	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		147135	07/12/21 07:02	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	148074	07/14/21 15:08	DCS9	ELLE

Client Sample ID: FB-0721

Lab Sample ID: 410-46523-4

Date Collected: 07/08/21 11:30

Matrix: Drinking Water

Date Received: 07/09/21 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			147135	07/12/21 07:02	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	147828	07/14/21 02:34	Y6ZN	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-46523-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-46523-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-46523-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-46523-1	CCB-0721-EFF	Drinking Water	07/08/21 11:15	07/09/21 10:46	
410-46523-2	CCB-0721-MID	Drinking Water	07/08/21 11:17	07/09/21 10:46	
410-46523-3	CCB-0721-INF	Drinking Water	07/08/21 11:19	07/09/21 10:46	
410-46523-4	FB-0721	Drinking Water	07/08/21 11:30	07/09/21 10:46	

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-46523 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: K Santarpio	Lab PM: Zanar, Elizabeth M	COC No: 410-28504-8726.1
Client Contact: Mr. Matthew Kenney	Phone: 603-656-5411	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA
Company: Weston Solutions, Inc	PWSID:		Page: Page 1 of 1
Address: 43 North Main Street	Due Date Requested: 7/13/21	Analysis Requested	Job #:
City: Concord	TAT Requested (days): 5 DAYS		
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No		
Phone: 603-656-5411	PO #: 0102971		
Email: Matthew.Kenney@WestonSolutions.com	WO #:		
Project Name: Nantucket	Project #: 41004986		
Site: ACK	SSOW#:		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	537_DW - PFAS - Potable 14 Standard	537_DW - PFAS - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	N		
CCB-0721-EFF	7/8/21	1115	G	Drinking Wate	X			
CCB-0721-MID	7/8/21	1117	G	Drinking Wate	X			
CCB-0721-INF	7/8/21	1119	G	Drinking Wate	X			
FB-0721	7/8/21	1130	G	~~Drinking~~ Wate	X			
				Water				
				Water				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Edwin Hernandez	7/6/21 1345		WESTON		
2		7/8/21 @ 1630	Weston	FedEx	7/8/21 @ 1630	FedEx
3					7/9/21 1046	FED

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.5

Ver: 11/01/2020

DAB

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-46523-1

Login Number: 46523

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Bryan, Debra A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-48581-1
Client Project/Site: Nantucket
Revision: 1

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
8/9/2021 4:29:54 PM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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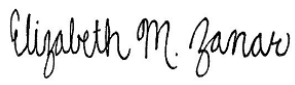

Elizabeth Zanar
Project Manager
8/9/2021 4:29:54 PM

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-48581-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes ☑ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 08/09/2021

Job ID: 410-48581-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-48581-1

REVISION

The report being provided is a revision of the original report sent on 8/6/2021. The report (revision 1) is being revised due to the MA MCP Checklist being added.

Comments
No additional comments.

Receipt
The samples were received on 7/23/2021 10:32 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.2º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: XA-0721-EFF (410-48581-1), XA-0721-MID (410-48581-2), XA-0721-INF (410-48581-3), CCA-0721-EFF (410-48581-4), CCA-0721-MID (410-48581-5), CCA-0721-INF (410-48581-6), CCB-0721-EFF (410-48581-7), CCB-0721-MID (410-48581-8), IW-PL-072221 (410-48581-9), IW-SP-072221 (410-48581-10), IW-DF-072221 (410-48581-11), FFGAC-0721-EFF (410-48581-12), FFGAC-0721-MID (410-48581-13), FFGAC-0721-INF (410-48581-14), FFGAC-0721-INF DUP (410-48581-15), NU-0721-EFF (410-48581-16), NU-0721-MID (410-48581-17), NU-0721-INF (410-48581-18), FB-072221-1 (410-48581-19) and TRIP BLANK (410-48581-20). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

MA MCP Checklist being added

LCMS
Method 537 DW: The recovery for the surrogate(s) in the method blank and the laboratory control spike sample associated with the following sample: TRIP BLANK (410-48581-20) is outside QC acceptance limits. Sufficient volume was not available to re-extract this sample.

Method 537 DW: The recovery for the internal standard(s) and surrogate(s) in the following samples: FFGAC-0721-INF (410-48581-14) and FFGAC-0721-INF DUP (410-48581-15) is outside of QC acceptance limits. The sample(s) was re-extracted within the required holding and the recovery for the internal standard(s) and surrogate(s) is again outside of QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Client Sample ID: XA-0721-EFF — Lab Sample ID: 410-48581-1

No Detections.

Client Sample ID: XA-0721-MID — Lab Sample ID: 410-48581-2

No Detections.

Client Sample ID: XA-0721-INF — Lab Sample ID: 410-48581-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	5.4		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	15		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	51		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: CCA-0721-EFF — Lab Sample ID: 410-48581-4

No Detections.

Client Sample ID: CCA-0721-MID — Lab Sample ID: 410-48581-5

No Detections.

Client Sample ID: CCA-0721-INF — Lab Sample ID: 410-48581-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	37		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	13		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	18		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL	150		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	310		17		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: CCB-0721-EFF — Lab Sample ID: 410-48581-7

No Detections.

Client Sample ID: CCB-0721-MID — Lab Sample ID: 410-48581-8

No Detections.

Client Sample ID: IW-PL-072221 — Lab Sample ID: 410-48581-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	9.8		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	2.0		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	7.1		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	1.8		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	34		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	22		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: IW-SP-072221 — Lab Sample ID: 410-48581-10

No Detections.

Client Sample ID: IW-DF-072221 — Lab Sample ID: 410-48581-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Client Sample ID: FFGAC-0721-EFF — Lab Sample ID: 410-48581-12

No Detections.

Client Sample ID: FFGAC-0721-MID — Lab Sample ID: 410-48581-13

No Detections.

Client Sample ID: FFGAC-0721-INF — Lab Sample ID: 410-48581-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	24	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorotetradecanoic acid	21	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	9.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	1.8		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	200		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid - DL	170		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	490		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid - DL	160		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorodecanoic acid - DL	200		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluoroundecanoic acid - DL	66		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorododecanoic acid - DL	58		17		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FFGAC-0721-INF DUP — Lab Sample ID: 410-48581-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	25	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorotetradecanoic acid	21	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	9.7		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	1.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	190		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid - DL	160		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	490		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid - DL	170		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorodecanoic acid - DL	210		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluoroundecanoic acid - DL	67		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorododecanoic acid - DL	63		17		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: NU-0721-EFF — Lab Sample ID: 410-48581-16

No Detections.

Client Sample ID: NU-0721-MID — Lab Sample ID: 410-48581-17

No Detections.

Client Sample ID: NU-0721-INF — Lab Sample ID: 410-48581-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	7.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-072221-1 — Lab Sample ID: 410-48581-19

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 410-48581-20

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: XA-0721-EFF

Date Collected: 07/21/21 14:55
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-1

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluorononanoic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
NEtFOSAA	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
NMeFOSAA	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		07/28/21 04:42	08/02/21 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*07/28/21 04:42*	*08/02/21 21:54*	*1*
13C2 PFDA	*93*		*70 - 130*	*07/28/21 04:42*	*08/02/21 21:54*	*1*
13C2 PFHxA	*101*		*70 - 130*	*07/28/21 04:42*	*08/02/21 21:54*	*1*

Client Sample ID: XA-0721-MID

Date Collected: 07/21/21 14:58
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-2

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*99*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:05*	*1*
13C2 PFDA	*96*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:05*	*1*
13C2 PFHxA	*97*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:05*	*1*

Client Sample ID: XA-0721-INF

Date Collected: 07/21/21 15:01
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-3

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.5**		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluorobutanesulfonic acid	**5.4**		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluorohexanesulfonic acid	**15**		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluorooctanesulfonic acid	**51**		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:17*	*1*
13C2 PFDA	*101*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:17*	*1*
13C2 PFHxA	*92*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:17*	*1*

Client Sample ID: CCA-0721-EFF

Date Collected: 07/21/21 15:25
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-4

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:28*	*1*
13C2 PFDA	*94*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:28*	*1*
13C2 PFHxA	*100*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:28*	*1*

Client Sample ID: CCA-0721-MID

Date Collected: 07/21/21 15:28
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-5
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:40*	*1*
13C2 PFDA	*91*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:40*	*1*
13C2 PFHxA	*100*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:40*	*1*

Client Sample ID: CCA-0721-INF

Date Collected: 07/21/21 15:31
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-6
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**37**		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
Perfluoroheptanoic acid	**13**		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
Perfluorooctanoic acid	**18**		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
Perfluorobutanesulfonic acid	**2.2**		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:51*	*1*
13C2 PFDA	*97*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:51*	*1*
13C2 PFHxA	*95*		*70 - 130*	*07/28/21 04:42*	*08/02/21 22:51*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	**150**		17		ng/L		07/28/21 04:42	08/03/21 19:01	10
Perfluorooctanesulfonic acid	**310**		17		ng/L		07/28/21 04:42	08/03/21 19:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*110*		*70 - 130*	*07/28/21 04:42*	*08/03/21 19:01*	*10*

Client Sample ID: CCA-0721-INF

Lab Sample ID: 410-48581-6
Matrix: Drinking Water
Date Collected: 07/21/21 15:31
Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	111		70 - 130	07/28/21 04:42	08/03/21 19:01	10
13C2 PFHxA	112		70 - 130	07/28/21 04:42	08/03/21 19:01	10

Client Sample ID: CCB-0721-EFF

Lab Sample ID: 410-48581-7
Matrix: Drinking Water
Date Collected: 07/21/21 15:35
Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/02/21 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95		70 - 130	07/28/21 04:42	08/02/21 23:03	1
13C2 PFDA	97		70 - 130	07/28/21 04:42	08/02/21 23:03	1
13C2 PFHxA	95		70 - 130	07/28/21 04:42	08/02/21 23:03	1

Client Sample ID: CCB-0721-MID

Lab Sample ID: 410-48581-8
Matrix: Drinking Water
Date Collected: 07/21/21 15:38
Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:14	1

Client Sample ID: CCB-0721-MID

Lab Sample ID: 410-48581-8

Date Collected: 07/21/21 15:38

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*99*		*70 - 130*	*07/28/21 04:42*	*08/02/21 23:14*	*1*
13C2 PFDA	*97*		*70 - 130*	*07/28/21 04:42*	*08/02/21 23:14*	*1*
13C2 PFHxA	*101*		*70 - 130*	*07/28/21 04:42*	*08/02/21 23:14*	*1*

Client Sample ID: IW-PL-072221

Lab Sample ID: 410-48581-9

Date Collected: 07/22/21 08:40

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**9.8**		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluoroheptanoic acid	**2.0**		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluorooctanoic acid	**7.1**		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluorobutanesulfonic acid	**1.8**		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluorohexanesulfonic acid	**34**		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluorooctanesulfonic acid	**22**		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*07/28/21 17:53*	*07/31/21 20:50*	*1*
13C2 PFDA	*86*		*70 - 130*	*07/28/21 17:53*	*07/31/21 20:50*	*1*
13C2 PFHxA	*90*		*70 - 130*	*07/28/21 17:53*	*07/31/21 20:50*	*1*

Client Sample ID: IW-SP-072221

Lab Sample ID: 410-48581-10

Date Collected: 07/22/21 09:05

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	08/02/21 13:38	1

Client Sample ID: IW-SP-072221

Lab Sample ID: 410-48581-10

Date Collected: 07/22/21 09:05

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*07/28/21 17:53*	*08/02/21 13:38*	*1*
13C2 PFDA	*93*		*70 - 130*	*07/28/21 17:53*	*08/02/21 13:38*	*1*
13C2 PFHxA	*105*		*70 - 130*	*07/28/21 17:53*	*08/02/21 13:38*	*1*

Client Sample ID: IW-DF-072221

Lab Sample ID: 410-48581-11

Date Collected: 07/22/21 09:40

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 17:53	07/31/21 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*78*		*70 - 130*	*07/28/21 17:53*	*07/31/21 21:13*	*1*
13C2 PFDA	*96*		*70 - 130*	*07/28/21 17:53*	*07/31/21 21:13*	*1*
13C2 PFHxA	*101*		*70 - 130*	*07/28/21 17:53*	*07/31/21 21:13*	*1*

Client Sample ID: FFGAC-0721-EFF

Lab Sample ID: 410-48581-12

Date Collected: 07/22/21 10:25

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluorononanoic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
NEtFOSAA	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
NMeFOSAA	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		07/28/21 17:53	07/31/21 21:24	1

Client Sample ID: FFGAC-0721-EFF

Lab Sample ID: 410-48581-12

Date Collected: 07/22/21 10:25
Matrix: Drinking Water
Date Received: 07/23/21 10:32

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*72*		*70 - 130*	*07/28/21 17:53*	*07/31/21 21:24*	*1*
13C2 PFDA	*80*		*70 - 130*	*07/28/21 17:53*	*07/31/21 21:24*	*1*
13C2 PFHxA	*94*		*70 - 130*	*07/28/21 17:53*	*07/31/21 21:24*	*1*

Client Sample ID: FFGAC-0721-MID

Lab Sample ID: 410-48581-13

Date Collected: 07/22/21 10:28
Matrix: Drinking Water
Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
NEtFOSAA	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
NMeFOSAA	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/03/21 07:27	08/04/21 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*08/03/21 07:27*	*08/04/21 13:28*	*1*
13C2 PFDA	*103*		*70 - 130*	*08/03/21 07:27*	*08/04/21 13:28*	*1*
13C2 PFHxA	*115*		*70 - 130*	*08/03/21 07:27*	*08/04/21 13:28*	*1*

Client Sample ID: FFGAC-0721-INF

Lab Sample ID: 410-48581-14

Date Collected: 07/22/21 10:31
Matrix: Drinking Water
Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid	**24**	***3**	1.7		ng/L		08/03/21 07:27	08/04/21 13:40	1
Perfluorotetradecanoic acid	**21**	***3**	1.7		ng/L		08/03/21 07:27	08/04/21 13:40	1
Perfluorobutanesulfonic acid	**9.5**		1.7		ng/L		08/03/21 07:27	08/04/21 13:40	1
Perfluorohexanesulfonic acid	**1.8**		1.7		ng/L		08/03/21 07:27	08/04/21 13:40	1
Perfluorooctanesulfonic acid	**5.2**		1.7		ng/L		08/03/21 07:27	08/04/21 13:40	1
NEtFOSAA	<1.7	*3	1.7		ng/L		08/03/21 07:27	08/04/21 13:40	1
NMeFOSAA	<1.7	*3	1.7		ng/L		08/03/21 07:27	08/04/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*114*	**3*	*70 - 130*	*08/03/21 07:27*	*08/04/21 13:40*	*1*
13C2 PFDA	*139*	*S1+ *3*	*70 - 130*	*08/03/21 07:27*	*08/04/21 13:40*	*1*
13C2 PFHxA	*126*	**3*	*70 - 130*	*08/03/21 07:27*	*08/04/21 13:40*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**200**		17		ng/L		08/03/21 07:27	08/06/21 11:48	10

Client Sample ID: FFGAC-0721-INF

Lab Sample ID: 410-48581-14

Date Collected: 07/22/21 10:31
Date Received: 07/23/21 10:32

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	170		17		ng/L		08/03/21 07:27	08/06/21 11:48	10
Perfluorooctanoic acid	490		17		ng/L		08/03/21 07:27	08/06/21 11:48	10
Perfluorononanoic acid	160		17		ng/L		08/03/21 07:27	08/06/21 11:48	10
Perfluorodecanoic acid	200		17		ng/L		08/03/21 07:27	08/06/21 11:48	10
Perfluoroundecanoic acid	66		17		ng/L		08/03/21 07:27	08/06/21 11:48	10
Perfluorododecanoic acid	58		17		ng/L		08/03/21 07:27	08/06/21 11:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*78*		*70 - 130*	*08/03/21 07:27*	*08/06/21 11:48*	*10*
13C2 PFDA	*92*		*70 - 130*	*08/03/21 07:27*	*08/06/21 11:48*	*10*
13C2 PFHxA	*92*		*70 - 130*	*08/03/21 07:27*	*08/06/21 11:48*	*10*

Client Sample ID: FFGAC-0721-INF DUP

Lab Sample ID: 410-48581-15

Date Collected: 07/22/21 10:31
Date Received: 07/23/21 10:32

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid	25	*3	1.7		ng/L		08/03/21 07:27	08/04/21 13:51	1
Perfluorotetradecanoic acid	21	*3	1.7		ng/L		08/03/21 07:27	08/04/21 13:51	1
Perfluorobutanesulfonic acid	9.7		1.7		ng/L		08/03/21 07:27	08/04/21 13:51	1
Perfluorohexanesulfonic acid	1.9		1.7		ng/L		08/03/21 07:27	08/04/21 13:51	1
Perfluorooctanesulfonic acid	5.2		1.7		ng/L		08/03/21 07:27	08/04/21 13:51	1
NEtFOSAA	<1.7	*3	1.7		ng/L		08/03/21 07:27	08/04/21 13:51	1
NMeFOSAA	<1.7	*3	1.7		ng/L		08/03/21 07:27	08/04/21 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*140*	*S1+*	*70 - 130*	*07/30/21 05:43*	*07/31/21 18:43*	*1*
d5-NEtFOSAA	*113*	**3*	*70 - 130*	*08/03/21 07:27*	*08/04/21 13:51*	*1*
13C2 PFDA	*161*	*S1+ *3*	*70 - 130*	*07/30/21 05:43*	*07/31/21 18:43*	*1*
13C2 PFDA	*140*	*S1+ *3*	*70 - 130*	*08/03/21 07:27*	*08/04/21 13:51*	*1*
13C2 PFHxA	*141*	*S1+ *3*	*70 - 130*	*07/30/21 05:43*	*07/31/21 18:43*	*1*
13C2 PFHxA	*118*	**3*	*70 - 130*	*08/03/21 07:27*	*08/04/21 13:51*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	190		17		ng/L		08/03/21 07:27	08/06/21 11:59	10
Perfluoroheptanoic acid	160		17		ng/L		08/03/21 07:27	08/06/21 11:59	10
Perfluorooctanoic acid	490		17		ng/L		08/03/21 07:27	08/06/21 11:59	10
Perfluorononanoic acid	170		17		ng/L		08/03/21 07:27	08/06/21 11:59	10
Perfluorodecanoic acid	210		17		ng/L		08/03/21 07:27	08/06/21 11:59	10
Perfluoroundecanoic acid	67		17		ng/L		08/03/21 07:27	08/06/21 11:59	10
Perfluorododecanoic acid	63		17		ng/L		08/03/21 07:27	08/06/21 11:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*83*		*70 - 130*	*08/03/21 07:27*	*08/06/21 11:59*	*10*
13C2 PFDA	*93*		*70 - 130*	*08/03/21 07:27*	*08/06/21 11:59*	*10*
13C2 PFHxA	*88*		*70 - 130*	*08/03/21 07:27*	*08/06/21 11:59*	*10*

Client Sample ID: NU-0721-EFF

Lab Sample ID: 410-48581-16

Date Collected: 07/22/21 11:40

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
NEtFOSAA	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
NMeFOSAA	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*114*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:03*	*1*
13C2 PFDA	*105*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:03*	*1*
13C2 PFHxA	*110*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:03*	*1*

Client Sample ID: NU-0721-MID

Lab Sample ID: 410-48581-17

Date Collected: 07/22/21 11:43

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
NEtFOSAA	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
NMeFOSAA	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/03/21 07:27	08/04/21 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*98*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:14*	*1*
13C2 PFDA	*101*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:14*	*1*
13C2 PFHxA	*102*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:14*	*1*

Client Sample ID: NU-0721-INF

Date Collected: 07/22/21 11:46
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-18

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.9**		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluorohexanesulfonic acid	**7.2**		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
NEtFOSAA	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
NMeFOSAA	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/03/21 07:27	08/04/21 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*103*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:26*	*1*
13C2 PFDA	*103*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:26*	*1*
13C2 PFHxA	*104*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:26*	*1*

Client Sample ID: FB-072221-1

Date Collected: 07/22/21 11:50
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-19

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluoroheptanoic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluorooctanoic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluorononanoic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluorodecanoic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluorotridecanoic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluorotetradecanoic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluorobutanesulfonic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluorohexanesulfonic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluorooctanesulfonic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
NEtFOSAA	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
NMeFOSAA	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluoroundecanoic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1
Perfluorododecanoic acid	<1.9		1.9		ng/L		08/03/21 07:27	08/04/21 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:37*	*1*
13C2 PFDA	*102*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:37*	*1*
13C2 PFHxA	*105*		*70 - 130*	*08/03/21 07:27*	*08/04/21 14:37*	*1*

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Client Sample ID: TRIP BLANK

Date Collected: 07/22/21 00:00
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-20

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluorononanoic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
NEtFOSAA	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
NMeFOSAA	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		07/30/21 05:43	07/31/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*112*		*70 - 130*	*07/30/21 05:43*	*07/31/21 19:40*	*1*
13C2 PFDA	*120*		*70 - 130*	*07/30/21 05:43*	*07/31/21 19:40*	*1*
13C2 PFHxA	*129*		*70 - 130*	*07/30/21 05:43*	*07/31/21 19:40*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-48581-1	XA-0721-EFF	95	93	101
410-48581-2	XA-0721-MID	99	96	97
410-48581-3	XA-0721-INF	88	101	92
410-48581-4	CCA-0721-EFF	91	94	100
410-48581-5	CCA-0721-MID	92	91	100
410-48581-6	CCA-0721-INF	88	97	95
410-48581-6 - DL	CCA-0721-INF	110	111	112
410-48581-7	CCB-0721-EFF	95	97	95
410-48581-8	CCB-0721-MID	99	97	101
410-48581-9	IW-PL-072221	86	86	90
410-48581-10	IW-SP-072221	89	93	105
410-48581-11	IW-DF-072221	78	96	101
410-48581-12	FFGAC-0721-EFF	72	80	94
410-48581-13	FFGAC-0721-MID	96	103	115
410-48581-14	FFGAC-0721-INF	114 *3	139 S1+ *3	126 *3
410-48581-14 - DL	FFGAC-0721-INF	78	92	92
410-48581-15	FFGAC-0721-INF DUP	140 S1+	161 S1+ *3	141 S1+ *3
410-48581-15	FFGAC-0721-INF DUP	113 *3	140 S1+ *3	118 *3
410-48581-15 - DL	FFGAC-0721-INF DUP	83	93	88
410-48581-16	NU-0721-EFF	114	105	110
410-48581-17	NU-0721-MID	98	101	102
410-48581-18	NU-0721-INF	103	103	104
410-48581-19	FB-072221-1	93	102	105
410-48581-20	TRIP BLANK	112	120	129
LCS 410-153488/2-A	Lab Control Sample	100	102	101
LCS 410-153944/2-A	Lab Control Sample	87	101	100
LCS 410-154620/2-A	Lab Control Sample	121	132 S1+	135 S1+
LCS 410-155797/2-A	Lab Control Sample	98	108	113
LCSD 410-153488/3-A	Lab Control Sample Dup	101	100	93
LCSD 410-153944/3-A	Lab Control Sample Dup	79	91	94
LCSD 410-154620/3-A	Lab Control Sample Dup	132 S1+	146 S1+	141 S1+
LCSD 410-155797/3-A	Lab Control Sample Dup	102	105	107
MB 410-153488/1-A	Method Blank	102	97	96
MB 410-153944/1-A	Method Blank	86	81	82
MB 410-154620/1-A	Method Blank	133 S1+	123	120
MB 410-155797/1-A	Method Blank	94	94	100

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-153488/1-A
Matrix: Drinking Water
Analysis Batch: 155434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorononanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
NEtFOSAA	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
NMeFOSAA	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*102*		*70 - 130*	*07/28/21 04:42*	*08/02/21 21:08*	*1*
13C2 PFDA	*97*		*70 - 130*	*07/28/21 04:42*	*08/02/21 21:08*	*1*
13C2 PFHxA	*96*		*70 - 130*	*07/28/21 04:42*	*08/02/21 21:08*	*1*

Lab Sample ID: LCS 410-153488/2-A
Matrix: Drinking Water
Analysis Batch: 155434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	80.0	77.4		ng/L		97	70 - 130
Perfluoroheptanoic acid	80.0	73.7		ng/L		92	70 - 130
Perfluorooctanoic acid	80.0	70.0		ng/L		87	70 - 130
Perfluorononanoic acid	80.0	71.2		ng/L		89	70 - 130
Perfluorodecanoic acid	80.0	76.4		ng/L		96	70 - 130
Perfluorotridecanoic acid	80.0	72.8		ng/L		91	70 - 130
Perfluorotetradecanoic acid	80.0	72.7		ng/L		91	70 - 130
Perfluorobutanesulfonic acid	70.8	65.6		ng/L		93	70 - 130
Perfluorohexanesulfonic acid	73.0	65.5		ng/L		90	70 - 130
Perfluorooctanesulfonic acid	74.0	64.3		ng/L		87	70 - 130
NEtFOSAA	80.0	80.2	E	ng/L		100	70 - 130
NMeFOSAA	80.0	68.8		ng/L		86	70 - 130
Perfluoroundecanoic acid	80.0	75.0		ng/L		94	70 - 130
Perfluorododecanoic acid	80.0	75.2		ng/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*100*		*70 - 130*
13C2 PFDA	*102*		*70 - 130*
13C2 PFHxA	*101*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-153488/3-A
Matrix: Drinking Water
Analysis Batch: 155434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153488

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	70.7		ng/L		88	70 - 130	9	30
Perfluoroheptanoic acid			80.0	73.2		ng/L		92	70 - 130	1	30
Perfluorooctanoic acid			80.0	70.4		ng/L		88	70 - 130	1	30
Perfluorononanoic acid			80.0	71.0		ng/L		89	70 - 130	0	30
Perfluorodecanoic acid			80.0	74.4		ng/L		93	70 - 130	3	30
Perfluorotridecanoic acid			80.0	72.6		ng/L		91	70 - 130	0	30
Perfluorotetradecanoic acid			80.0	70.9		ng/L		89	70 - 130	2	30
Perfluorobutanesulfonic acid			70.8	56.2		ng/L		79	70 - 130	15	30
Perfluorohexanesulfonic acid			73.0	68.4		ng/L		94	70 - 130	4	30
Perfluorooctanesulfonic acid			74.0	65.9		ng/L		89	70 - 130	3	30
NEtFOSAA			80.0	79.0		ng/L		99	70 - 130	1	30
NMeFOSAA			80.0	73.7		ng/L		92	70 - 130	7	30
Perfluoroundecanoic acid			80.0	73.3		ng/L		92	70 - 130	2	30
Perfluorododecanoic acid			80.0	73.2		ng/L		92	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*101*		*70 - 130*
13C2 PFDA	*100*		*70 - 130*
13C2 PFHxA	*93*		*70 - 130*

Lab Sample ID: MB 410-153944/1-A
Matrix: Drinking Water
Analysis Batch: 155120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluorononanoic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
NEtFOSAA	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
NMeFOSAA	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		07/28/21 17:53	07/31/21 20:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*07/28/21 17:53*	*07/31/21 20:03*	*1*
13C2 PFDA	*81*		*70 - 130*	*07/28/21 17:53*	*07/31/21 20:03*	*1*
13C2 PFHxA	*82*		*70 - 130*	*07/28/21 17:53*	*07/31/21 20:03*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCS 410-153944/2-A
Matrix: Drinking Water
Analysis Batch: 155120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153944

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			80.0	72.4		ng/L		90	70 - 130		
Perfluoroheptanoic acid			80.0	73.3		ng/L		92	70 - 130		
Perfluorooctanoic acid			80.0	71.8		ng/L		90	70 - 130		
Perfluorononanoic acid			80.0	69.8		ng/L		87	70 - 130		
Perfluorodecanoic acid			80.0	70.4		ng/L		88	70 - 130		
Perfluorotridecanoic acid			80.0	69.5		ng/L		87	70 - 130		
Perfluorotetradecanoic acid			80.0	70.2		ng/L		88	70 - 130		
Perfluorobutanesulfonic acid			70.8	66.8		ng/L		94	70 - 130		
Perfluorohexanesulfonic acid			73.0	68.0		ng/L		93	70 - 130		
Perfluorooctanesulfonic acid			74.0	63.9		ng/L		86	70 - 130		
NEtFOSAA			80.0	68.2		ng/L		85	70 - 130		
NMeFOSAA			80.0	66.2		ng/L		83	70 - 130		
Perfluoroundecanoic acid			80.0	66.2		ng/L		83	70 - 130		
Perfluorododecanoic acid			80.0	71.7		ng/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*87*		*70 - 130*
13C2 PFDA	*101*		*70 - 130*
13C2 PFHxA	*100*		*70 - 130*

Lab Sample ID: LCSD 410-153944/3-A
Matrix: Drinking Water
Analysis Batch: 155120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153944

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	66.0		ng/L		82	70 - 130	9	30
Perfluoroheptanoic acid			80.0	66.6		ng/L		83	70 - 130	10	30
Perfluorooctanoic acid			80.0	69.0		ng/L		86	70 - 130	4	30
Perfluorononanoic acid			80.0	65.3		ng/L		82	70 - 130	7	30
Perfluorodecanoic acid			80.0	64.6		ng/L		81	70 - 130	9	30
Perfluorotridecanoic acid			80.0	64.9		ng/L		81	70 - 130	7	30
Perfluorotetradecanoic acid			80.0	65.0		ng/L		81	70 - 130	8	30
Perfluorobutanesulfonic acid			70.8	61.2		ng/L		86	70 - 130	9	30
Perfluorohexanesulfonic acid			73.0	64.1		ng/L		88	70 - 130	6	30
Perfluorooctanesulfonic acid			74.0	61.4		ng/L		83	70 - 130	4	30
NEtFOSAA			80.0	58.8		ng/L		74	70 - 130	15	30
NMeFOSAA			80.0	61.4		ng/L		77	70 - 130	8	30
Perfluoroundecanoic acid			80.0	62.3		ng/L		78	70 - 130	6	30
Perfluorododecanoic acid			80.0	66.1		ng/L		83	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*79*		*70 - 130*
13C2 PFDA	*91*		*70 - 130*
13C2 PFHxA	*94*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: MB 410-154620/1-A
Matrix: Drinking Water
Analysis Batch: 155120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluorononanoic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
NEtFOSAA	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
NMeFOSAA	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		07/30/21 05:43	07/31/21 17:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*133*	*S1+*	*70 - 130*	*07/30/21 05:43*	*07/31/21 17:34*	*1*
13C2 PFDA	*123*		*70 - 130*	*07/30/21 05:43*	*07/31/21 17:34*	*1*
13C2 PFHxA	*120*		*70 - 130*	*07/30/21 05:43*	*07/31/21 17:34*	*1*

Lab Sample ID: LCS 410-154620/2-A
Matrix: Drinking Water
Analysis Batch: 155120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	80.0	85.1	E	ng/L		106	70 - 130
Perfluoroheptanoic acid	80.0	92.0	E	ng/L		115	70 - 130
Perfluorooctanoic acid	80.0	87.0	E	ng/L		109	70 - 130
Perfluorononanoic acid	80.0	92.7	E	ng/L		116	70 - 130
Perfluorodecanoic acid	80.0	88.6	E	ng/L		111	70 - 130
Perfluorotridecanoic acid	80.0	89.5	E	ng/L		112	70 - 130
Perfluorotetradecanoic acid	80.0	87.5	E	ng/L		109	70 - 130
Perfluorobutanesulfonic acid	70.8	78.5	E	ng/L		111	70 - 130
Perfluorohexanesulfonic acid	73.0	85.0	E	ng/L		116	70 - 130
Perfluorooctanesulfonic acid	74.0	82.6	E	ng/L		112	70 - 130
NEtFOSAA	80.0	88.0	E	ng/L		110	70 - 130
NMeFOSAA	80.0	84.8	E	ng/L		106	70 - 130
Perfluoroundecanoic acid	80.0	89.4	E	ng/L		112	70 - 130
Perfluorododecanoic acid	80.0	89.0	E	ng/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*121*		*70 - 130*
13C2 PFDA	*132*	*S1+*	*70 - 130*
13C2 PFHxA	*135*	*S1+*	*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-154620/3-A
Matrix: Drinking Water
Analysis Batch: 155120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 154620

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	91.8	E	ng/L		115	70 - 130	8	30
Perfluoroheptanoic acid			80.0	93.8	E	ng/L		117	70 - 130	2	30
Perfluorooctanoic acid			80.0	89.5	E	ng/L		112	70 - 130	3	30
Perfluorononanoic acid			80.0	92.2	E	ng/L		115	70 - 130	1	30
Perfluorodecanoic acid			80.0	93.3	E	ng/L		117	70 - 130	5	30
Perfluorotridecanoic acid			80.0	91.5	E	ng/L		114	70 - 130	2	30
Perfluorotetradecanoic acid			80.0	91.6	E	ng/L		114	70 - 130	5	30
Perfluorobutanesulfonic acid			70.8	77.8	E	ng/L		110	70 - 130	1	30
Perfluorohexanesulfonic acid			73.0	85.2	E	ng/L		117	70 - 130	0	30
Perfluorooctanesulfonic acid			74.0	82.3	E	ng/L		111	70 - 130	0	30
NEtFOSAA			80.0	98.4	E	ng/L		123	70 - 130	11	30
NMeFOSAA			80.0	97.0	E	ng/L		121	70 - 130	13	30
Perfluoroundecanoic acid			80.0	89.6	E	ng/L		112	70 - 130	0	30
Perfluorododecanoic acid			80.0	93.8	E	ng/L		117	70 - 130	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*132*	*S1+*	*70 - 130*
13C2 PFDA	*146*	*S1+*	*70 - 130*
13C2 PFHxA	*141*	*S1+*	*70 - 130*

Lab Sample ID: MB 410-155797/1-A
Matrix: Drinking Water
Analysis Batch: 156420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155797

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluorononanoic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
NEtFOSAA	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
NMeFOSAA	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		08/03/21 07:27	08/04/21 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*94*		*70 - 130*	*08/03/21 07:27*	*08/04/21 12:19*	*1*
13C2 PFDA	*94*		*70 - 130*	*08/03/21 07:27*	*08/04/21 12:19*	*1*
13C2 PFHxA	*100*		*70 - 130*	*08/03/21 07:27*	*08/04/21 12:19*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCS 410-155797/2-A
Matrix: Drinking Water
Analysis Batch: 156420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155797

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			80.0	90.7	E	ng/L		113	70 - 130		
Perfluoroheptanoic acid			80.0	92.4	E	ng/L		115	70 - 130		
Perfluorooctanoic acid			80.0	92.9	E	ng/L		116	70 - 130		
Perfluorononanoic acid			80.0	91.3	E	ng/L		114	70 - 130		
Perfluorodecanoic acid			80.0	92.3	E	ng/L		115	70 - 130		
Perfluorotridecanoic acid			80.0	91.9	E	ng/L		115	70 - 130		
Perfluorotetradecanoic acid			80.0	90.7	E	ng/L		113	70 - 130		
Perfluorobutanesulfonic acid			70.8	84.5	E	ng/L		119	70 - 130		
Perfluorohexanesulfonic acid			73.0	85.7	E	ng/L		118	70 - 130		
Perfluorooctanesulfonic acid			74.0	83.6	E	ng/L		113	70 - 130		
NEtFOSAA			80.0	99.3	E	ng/L		124	70 - 130		
NMeFOSAA			80.0	90.6	E	ng/L		113	70 - 130		
Perfluoroundecanoic acid			80.0	90.7	E	ng/L		113	70 - 130		
Perfluorododecanoic acid			80.0	93.0	E	ng/L		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*98*		*70 - 130*
13C2 PFDA	*108*		*70 - 130*
13C2 PFHxA	*113*		*70 - 130*

Lab Sample ID: LCSD 410-155797/3-A
Matrix: Drinking Water
Analysis Batch: 156420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 155797

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	93.0	E	ng/L		116	70 - 130	3	30
Perfluoroheptanoic acid			80.0	90.2	E	ng/L		113	70 - 130	2	30
Perfluorooctanoic acid			80.0	89.1	E	ng/L		111	70 - 130	4	30
Perfluorononanoic acid			80.0	93.8	E	ng/L		117	70 - 130	3	30
Perfluorodecanoic acid			80.0	95.6	E	ng/L		119	70 - 130	4	30
Perfluorotridecanoic acid			80.0	92.1	E	ng/L		115	70 - 130	0	30
Perfluorotetradecanoic acid			80.0	90.9	E	ng/L		114	70 - 130	0	30
Perfluorobutanesulfonic acid			70.8	78.9	E	ng/L		111	70 - 130	7	30
Perfluorohexanesulfonic acid			73.0	83.8	E	ng/L		115	70 - 130	2	30
Perfluorooctanesulfonic acid			74.0	80.8	E	ng/L		109	70 - 130	3	30
NEtFOSAA			80.0	102	E	ng/L		128	70 - 130	3	30
NMeFOSAA			80.0	87.5	E	ng/L		109	70 - 130	4	30
Perfluoroundecanoic acid			80.0	93.2	E	ng/L		117	70 - 130	3	30
Perfluorododecanoic acid			80.0	91.4	E	ng/L		114	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*102*		*70 - 130*
13C2 PFDA	*105*		*70 - 130*
13C2 PFHxA	*107*		*70 - 130*

LCMS

Prep Batch: 153488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-1	XA-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-2	XA-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-3	XA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-4	CCA-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-5	CCA-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-6	CCA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-6 - DL	CCA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-7	CCB-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-8	CCB-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-153488/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-153488/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-153488/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Prep Batch: 153944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-9	IW-PL-072221	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-10	IW-SP-072221	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-11	IW-DF-072221	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-12	FFGAC-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-153944/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-153944/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-153944/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Prep Batch: 154620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-14 - RE	FFGAC-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-15	FFGAC-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-20	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-154620/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-154620/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-154620/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 155120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-9	IW-PL-072221	Total/NA	Drinking Water	EPA 537 Ver 1.1	153944
410-48581-11	IW-DF-072221	Total/NA	Drinking Water	EPA 537 Ver 1.1	153944
410-48581-12	FFGAC-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153944
410-48581-14 - RE	FFGAC-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	154620
410-48581-15	FFGAC-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	154620
410-48581-20	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	154620
MB 410-153944/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	153944
MB 410-154620/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	154620
LCS 410-153944/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	153944
LCS 410-154620/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	154620
LCSD 410-153944/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	153944
LCSD 410-154620/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	154620

Analysis Batch: 155434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-1	XA-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48581-2	XA-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488

LCMS (Continued)

Analysis Batch: 155434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-3	XA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48581-4	CCA-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48581-5	CCA-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48581-6	CCA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48581-7	CCB-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48581-8	CCB-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48581-10	IW-SP-072221	Total/NA	Drinking Water	EPA 537 Ver 1.1	153944
MB 410-153488/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
LCS 410-153488/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
LCSD 410-153488/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488

Analysis Batch: 155702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-6 - DL	CCA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488

Prep Batch: 155797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-13	FFGAC-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-14	FFGAC-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-14 - DL	FFGAC-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-15 - DL	FFGAC-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-15	FFGAC-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-16	NU-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-17	NU-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-18	NU-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48581-19	FB-072221-1	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-155797/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-155797/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-155797/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 156420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-13	FFGAC-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
410-48581-14	FFGAC-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
410-48581-15	FFGAC-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
410-48581-16	NU-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
410-48581-17	NU-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
410-48581-18	NU-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
410-48581-19	FB-072221-1	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
MB 410-155797/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
LCS 410-155797/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
LCSD 410-155797/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797

Analysis Batch: 157517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48581-14 - DL	FFGAC-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797
410-48581-15 - DL	FFGAC-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	155797

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Client Sample ID: XA-0721-EFF
Lab Sample ID: 410-48581-1
Date Collected: 07/21/21 14:55
Matrix: Drinking Water
Date Received: 07/23/21 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 21:54	Y6ZN	ELLE

Client Sample ID: XA-0721-MID
Lab Sample ID: 410-48581-2
Date Collected: 07/21/21 14:58
Matrix: Drinking Water
Date Received: 07/23/21 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 22:05	Y6ZN	ELLE

Client Sample ID: XA-0721-INF
Lab Sample ID: 410-48581-3
Date Collected: 07/21/21 15:01
Matrix: Drinking Water
Date Received: 07/23/21 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 22:17	Y6ZN	ELLE

Client Sample ID: CCA-0721-EFF
Lab Sample ID: 410-48581-4
Date Collected: 07/21/21 15:25
Matrix: Drinking Water
Date Received: 07/23/21 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 22:28	Y6ZN	ELLE

Client Sample ID: CCA-0721-MID
Lab Sample ID: 410-48581-5
Date Collected: 07/21/21 15:28
Matrix: Drinking Water
Date Received: 07/23/21 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 22:40	Y6ZN	ELLE

Client Sample ID: CCA-0721-INF
Lab Sample ID: 410-48581-6
Date Collected: 07/21/21 15:31
Matrix: Drinking Water
Date Received: 07/23/21 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 22:51	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	155702	08/03/21 19:01	DCS9	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Client Sample ID: CCB-0721-EFF
Date Collected: 07/21/21 15:35
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-7
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 23:03	Y6ZN	ELLE

Client Sample ID: CCB-0721-MID
Date Collected: 07/21/21 15:38
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-8
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 23:14	Y6ZN	ELLE

Client Sample ID: IW-PL-072221
Date Collected: 07/22/21 08:40
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-9
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153944	07/28/21 17:53	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155120	07/31/21 20:50	VK3G	ELLE

Client Sample ID: IW-SP-072221
Date Collected: 07/22/21 09:05
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-10
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153944	07/28/21 17:53	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 13:38	Y6ZN	ELLE

Client Sample ID: IW-DF-072221
Date Collected: 07/22/21 09:40
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-11
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153944	07/28/21 17:53	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155120	07/31/21 21:13	VK3G	ELLE

Client Sample ID: FFGAC-0721-EFF
Date Collected: 07/22/21 10:25
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-12
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153944	07/28/21 17:53	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155120	07/31/21 21:24	VK3G	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Client Sample ID: FFGAC-0721-MID
Date Collected: 07/22/21 10:28
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-13
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			155797	08/03/21 07:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	156420	08/04/21 13:28	DCS9	ELLE

Client Sample ID: FFGAC-0721-INF
Date Collected: 07/22/21 10:31
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-14
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1	RE		154620	07/30/21 05:43	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	155120	07/31/21 18:31	VK3G	ELLE
Total/NA	Prep	EPA 537 Ver 1.1			155797	08/03/21 07:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	156420	08/04/21 13:40	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		155797	08/03/21 07:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	157517	08/06/21 11:48	DCS9	ELLE

Client Sample ID: FFGAC-0721-INF DUP
Date Collected: 07/22/21 10:31
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-15
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			154620	07/30/21 05:43	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155120	07/31/21 18:43	VK3G	ELLE
Total/NA	Prep	EPA 537 Ver 1.1			155797	08/03/21 07:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	156420	08/04/21 13:51	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		155797	08/03/21 07:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	157517	08/06/21 11:59	DCS9	ELLE

Client Sample ID: NU-0721-EFF
Date Collected: 07/22/21 11:40
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-16
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			155797	08/03/21 07:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	156420	08/04/21 14:03	DCS9	ELLE

Client Sample ID: NU-0721-MID
Date Collected: 07/22/21 11:43
Date Received: 07/23/21 10:32

Lab Sample ID: 410-48581-17
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			155797	08/03/21 07:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	156420	08/04/21 14:14	DCS9	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Client Sample ID: NU-0721-INF

Lab Sample ID: 410-48581-18

Date Collected: 07/22/21 11:46

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			155797	08/03/21 07:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	156420	08/04/21 14:26	DCS9	ELLE

Client Sample ID: FB-072221-1

Lab Sample ID: 410-48581-19

Date Collected: 07/22/21 11:50

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			155797	08/03/21 07:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	156420	08/04/21 14:37	DCS9	ELLE

Client Sample ID: TRIP BLANK

Lab Sample ID: 410-48581-20

Date Collected: 07/22/21 00:00

Matrix: Drinking Water

Date Received: 07/23/21 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			154620	07/30/21 05:43	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155120	07/31/21 19:40	VK3G	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48581-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-48581-1	XA-0721-EFF	Drinking Water	07/21/21 14:55	07/23/21 10:32
410-48581-2	XA-0721-MID	Drinking Water	07/21/21 14:58	07/23/21 10:32
410-48581-3	XA-0721-INF	Drinking Water	07/21/21 15:01	07/23/21 10:32
410-48581-4	CCA-0721-EFF	Drinking Water	07/21/21 15:25	07/23/21 10:32
410-48581-5	CCA-0721-MID	Drinking Water	07/21/21 15:28	07/23/21 10:32
410-48581-6	CCA-0721-INF	Drinking Water	07/21/21 15:31	07/23/21 10:32
410-48581-7	CCB-0721-EFF	Drinking Water	07/21/21 15:35	07/23/21 10:32
410-48581-8	CCB-0721-MID	Drinking Water	07/21/21 15:38	07/23/21 10:32
410-48581-9	IW-PL-072221	Drinking Water	07/22/21 08:40	07/23/21 10:32
410-48581-10	IW-SP-072221	Drinking Water	07/22/21 09:05	07/23/21 10:32
410-48581-11	IW-DF-072221	Drinking Water	07/22/21 09:40	07/23/21 10:32
410-48581-12	FFGAC-0721-EFF	Drinking Water	07/22/21 10:25	07/23/21 10:32
410-48581-13	FFGAC-0721-MID	Drinking Water	07/22/21 10:28	07/23/21 10:32
410-48581-14	FFGAC-0721-INF	Drinking Water	07/22/21 10:31	07/23/21 10:32
410-48581-15	FFGAC-0721-INF DUP	Drinking Water	07/22/21 10:31	07/23/21 10:32
410-48581-16	NU-0721-EFF	Drinking Water	07/22/21 11:40	07/23/21 10:32
410-48581-17	NU-0721-MID	Drinking Water	07/22/21 11:43	07/23/21 10:32
410-48581-18	NU-0721-INF	Drinking Water	07/22/21 11:46	07/23/21 10:32
410-48581-19	FB-072221-1	Drinking Water	07/22/21 11:50	07/23/21 10:32
410-48581-20	TRIP BLANK	Drinking Water	07/22/21 00:00	07/23/21 10:32

, LLC

Chain of Custody Record

eurofins Environment Testing America

Client Contact: Mr. Matthew Kenney	Sampler: N. WOODMAN / M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-29567-8491.6
Company: Weston Solutions, Inc.	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 1 of 2
Address: 43 North Main Street	PWSID:	Analysis Requested		Job #:
City: Concord	Due Date Requested:			Preservation Codes:
State, Zip: NH, 03301	TAT Requested (days): STANDARD			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Phone: 860 712 2684	Compliance Project: Δ Yes Δ No			
Email: Matthew.Kenney@WestonSolutions.com	PO #: 0102971			Other:
Project Name: Nantucket	WO #:			
Site:	Project #: 41004986			
	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
XA-0721-EFF	7/21/21	1155	G	Drinking Wate			X			
XA-0721-MID		1158		Drinking Wate			X			
XA-0721-INF		1201		Drinking Wate			X			
CCA-0721-EFF		1525		Drinking Wate			X			
CCA-0721-MID		1528		Drinking Wate			X			
CCA-0721-INF		1531		Drinking Wate			X			
CCB-0721-EFF		1535		Drinking Wate			X			
CCB-0721-MID		1538		Drinking Wate			X			
IW-PL-072221	7/22/21	0840		Drinking Wate			X			
IW-SP-072221		0905		Drinking Wate			X			
IW-DF-072221		0940		Drinking Wate			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 7/22/21 1450	Company: WESTON	Received by: SEALED COOLER
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by: [signature] Date/Time: 7/23/21 1032 Company: FedEx
Custody Seals Intact: X Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 16.2 KAM

Ver: 06/08/2021

ML

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY / N. WOODMAN	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-29567-8491.7
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 2 of 2
Company: Weston Solutions, Inc.	PWSID:	Analysis Requested		Job #:
Address: 43 North Main Street	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41004986			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Special Instructions/Note:
FFGAC-0721-EFF	7/22/21	1025	G	Drinking Wate	X		
FFGAC-0721-MID		1028		Drinking Wate	X		
FFGAC-0721-INF		1031		Drinking Wate	X		
FFGAC-0721-INF DUP		1031		Drinking Wate	X		
NU-0721-EFF		1140		Water	X		
NU-0721-MID		1143		Water	X		
NU-0721-INF		1146		Water	X		
FB-072221-1		1150		Water	X		N. WOODMAN
TRIP BLANK		—		Water	X		
				Water			
				Water			

MF

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7/22/21 1450	WESTON			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	7/23/21 1032	

Custody Seals Intact: ☒ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 16.2

Ver: 06/08/2021

MR

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-48581-1

Login Number: 48581
List Number: 1
Creator: Reiff, Nicole L

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice
Cooler Temperature is acceptable (</=6C, not frozen).	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-48582-1
Client Project/Site: Nantucket
Revision: 1

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
8/9/2021 4:24:17 PM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

Review your project results through TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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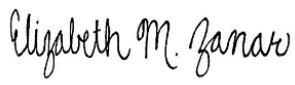

Elizabeth Zanar
Project Manager
8/9/2021 4:24:17 PM

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-48582-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes ☑ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 08/09/2021

Job ID: 410-48582-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-48582-1

REVISION

The report being provided is a revision of the original report sent on 8/6/2021. The report (revision 1) is being revised due to the MA MCP Checklist being added.

Receipt
The samples were received on 7/23/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 8.5°C

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: VTA-0721-EFF (410-48582-1), VTA-0721-MID (410-48582-2), VTA-0721-INF (410-48582-3), VTB-0721-EFF (410-48582-4), VTB-0721-MID (410-48582-5), TD-0721-EFF (410-48582-6), TD-0721-MID (410-48582-7), TD-0721-INF (410-48582-8), KH-0721-EFF (410-48582-9), KH-0721-MID (410-48582-10), KH-0721-INF (410-48582-11), QO-0721-EFF (410-48582-12), QO-0721-MID (410-48582-13), QO-0721-INF (410-48582-14), FM-0721-EFF (410-48582-15), FM-0721-MID (410-48582-16), FM-0721-INF (410-48582-17), KH-0721-INF DUP (410-48582-18), FB-072121-2 (410-48582-19) and TRIP BLANK (410-48582-20). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): TRIP BLANK (410-48582-20). The COC lists a collection date of 07/21/22. The sample container label lists a collection date of 07/22/21.

PFAS
Method 537_DW: The sample injection standard peak areas in the following sample: VTA-0721-INF (410-48582-3) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.The recovery for the surrogate in the following sample: VTA-0721-INF (410-48582-3) is outside the QC acceptance limits due to the matrix of the sample.

Method 537_DW: The recovery for the surrogate(s) in the following sample: QO-0721-INF (410-48582-14) is outside QC acceptance limits. The sample(s) was re-extracted outside of the required holding time and the recovery for the surrogate(s) is again outside of QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Client Sample ID: VTA-0721-EFF — Lab Sample ID: 410-48582-1

No Detections.

Client Sample ID: VTA-0721-MID — Lab Sample ID: 410-48582-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.6		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	5.2		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	49		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: VTA-0721-INF — Lab Sample ID: 410-48582-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	29	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	30		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	24		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroundecanoic acid	2.6	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	640		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid - DL	270		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	84		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid - DL	61		17		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: VTB-0721-EFF — Lab Sample ID: 410-48582-4

No Detections.

Client Sample ID: VTB-0721-MID — Lab Sample ID: 410-48582-5

No Detections.

Client Sample ID: TD-0721-EFF — Lab Sample ID: 410-48582-6

No Detections.

Client Sample ID: TD-0721-MID — Lab Sample ID: 410-48582-7

No Detections.

Client Sample ID: TD-0721-INF — Lab Sample ID: 410-48582-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	45		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	37		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	53		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	190		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	110		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	290		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL2	1200		170		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: KH-0721-EFF — Lab Sample ID: 410-48582-9

No Detections.

Client Sample ID: KH-0721-MID — Lab Sample ID: 410-48582-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Client Sample ID: KH-0721-INF — Lab Sample ID: 410-48582-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	56		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	5.3		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	39		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	160		16		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	89		16		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	450		16		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL2	590		160		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: QO-0721-EFF — Lab Sample ID: 410-48582-12

No Detections.

Client Sample ID: QO-0721-MID — Lab Sample ID: 410-48582-13

No Detections.

Client Sample ID: QO-0721-INF — Lab Sample ID: 410-48582-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	49		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	11		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	590		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid - DL	120		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL2	1300		170		ng/L	100		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL2	1200		170		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FM-0721-EFF — Lab Sample ID: 410-48582-15

No Detections.

Client Sample ID: FM-0721-MID — Lab Sample ID: 410-48582-16

No Detections.

Client Sample ID: FM-0721-INF — Lab Sample ID: 410-48582-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	9.0		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	3.1		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	8.3		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	12		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: KH-0721-INF DUP — Lab Sample ID: 410-48582-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	64		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	5.8		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	41		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	180		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	97		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	500		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL2	620		170		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-072121-2 — Lab Sample ID: 410-48582-19

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 410-48582-20

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: VTA-0721-EFF

Date Collected: 07/21/21 11:55
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-1

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*07/28/21 04:42*	*08/02/21 23:26*	*1*
13C2 PFDA	*96*		*70 - 130*	*07/28/21 04:42*	*08/02/21 23:26*	*1*
13C2 PFHxA	*105*		*70 - 130*	*07/28/21 04:42*	*08/02/21 23:26*	*1*

Client Sample ID: VTA-0721-MID

Date Collected: 07/21/21 11:58
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-2

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.6**		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluorohexanesulfonic acid	**5.2**		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluorooctanesulfonic acid	**49**		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/02/21 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*80*		*70 - 130*	*07/28/21 04:42*	*08/02/21 23:37*	*1*
13C2 PFDA	*88*		*70 - 130*	*07/28/21 04:42*	*08/02/21 23:37*	*1*
13C2 PFHxA	*91*		*70 - 130*	*07/28/21 04:42*	*08/02/21 23:37*	*1*

Client Sample ID: VTA-0721-INF

Date Collected: 07/21/21 12:01
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-3

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid	**29**	***3**	1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1
Perfluorotridecanoic acid	<1.7	*3	1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1
Perfluorotetradecanoic acid	<1.7	*3	1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1
Perfluorohexanesulfonic acid	**30**		1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1
Perfluorooctanesulfonic acid	**24**		1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1
Perfluoroundecanoic acid	**2.6**	***3**	1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1
Perfluorododecanoic acid	<1.7	*3	1.7		ng/L		07/28/21 04:42	08/03/21 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*98*		*70 - 130*	*07/28/21 04:42*	*08/03/21 00:00*	*1*
13C2 PFDA	*219*	**3 S1+*	*70 - 130*	*07/28/21 04:42*	*08/03/21 00:00*	*1*
13C2 PFHxA	*187*	**3 S1+*	*70 - 130*	*07/28/21 04:42*	*08/03/21 00:00*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**640**		17		ng/L		07/28/21 04:42	08/03/21 19:36	10
Perfluoroheptanoic acid	**270**		17		ng/L		07/28/21 04:42	08/03/21 19:36	10
Perfluorooctanoic acid	**84**		17		ng/L		07/28/21 04:42	08/03/21 19:36	10
Perfluorononanoic acid	**61**		17		ng/L		07/28/21 04:42	08/03/21 19:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*108*		*70 - 130*	*07/28/21 04:42*	*08/03/21 19:36*	*10*
13C2 PFDA	*123*		*70 - 130*	*07/28/21 04:42*	*08/03/21 19:36*	*10*
13C2 PFHxA	*119*		*70 - 130*	*07/28/21 04:42*	*08/03/21 19:36*	*10*

Client Sample ID: VTB-0721-EFF

Date Collected: 07/21/21 12:05
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-4

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*07/28/21 04:42*	*08/03/21 00:12*	*1*

Client Sample ID: VTB-0721-EFF

Lab Sample ID: 410-48582-4

Date Collected: 07/21/21 12:05

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	97		70 - 130	07/28/21 04:42	08/03/21 00:12	1
13C2 PFHxA	97		70 - 130	07/28/21 04:42	08/03/21 00:12	1

Client Sample ID: VTB-0721-MID

Lab Sample ID: 410-48582-5

Date Collected: 07/21/21 12:08

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 04:42	08/03/21 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	80		70 - 130	07/28/21 04:42	08/03/21 00:23	1
13C2 PFDA	91		70 - 130	07/28/21 04:42	08/03/21 00:23	1
13C2 PFHxA	99		70 - 130	07/28/21 04:42	08/03/21 00:23	1

Client Sample ID: TD-0721-EFF

Lab Sample ID: 410-48582-6

Date Collected: 07/21/21 12:55

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 04:42	08/03/21 00:35	1

Client Sample ID: TD-0721-EFF

Lab Sample ID: 410-48582-6

Date Collected: 07/21/21 12:55

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*83*		*70 - 130*	*07/28/21 04:42*	*08/03/21 00:35*	*1*
13C2 PFDA	*88*		*70 - 130*	*07/28/21 04:42*	*08/03/21 00:35*	*1*
13C2 PFHxA	*99*		*70 - 130*	*07/28/21 04:42*	*08/03/21 00:35*	*1*

Client Sample ID: TD-0721-MID

Lab Sample ID: 410-48582-7

Date Collected: 07/21/21 12:58

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*81*		*70 - 130*	*07/28/21 06:27*	*08/03/21 01:44*	*1*
13C2 PFDA	*90*		*70 - 130*	*07/28/21 06:27*	*08/03/21 01:44*	*1*
13C2 PFHxA	*94*		*70 - 130*	*07/28/21 06:27*	*08/03/21 01:44*	*1*

Client Sample ID: TD-0721-INF

Lab Sample ID: 410-48582-8

Date Collected: 07/21/21 13:01

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**45**		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1
Perfluorononanoic acid	**37**		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1
Perfluorobutanesulfonic acid	**53**		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*83*		*70 - 130*	*07/28/21 06:27*	*08/03/21 01:56*	*1*
13C2 PFDA	*98*		*70 - 130*	*07/28/21 06:27*	*08/03/21 01:56*	*1*
13C2 PFHxA	*93*		*70 - 130*	*07/28/21 06:27*	*08/03/21 01:56*	*1*

Client Sample ID: TD-0721-INF

Lab Sample ID: 410-48582-8

Date Collected: 07/21/21 13:01

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	190		17		ng/L		07/28/21 06:27	08/03/21 20:10	10
Perfluorooctanoic acid	110		17		ng/L		07/28/21 06:27	08/03/21 20:10	10
Perfluorooctanesulfonic acid	290		17		ng/L		07/28/21 06:27	08/03/21 20:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*105*		*70 - 130*	*07/28/21 06:27*	*08/03/21 20:10*	*10*
13C2 PFDA	*101*		*70 - 130*	*07/28/21 06:27*	*08/03/21 20:10*	*10*
13C2 PFHxA	*104*		*70 - 130*	*07/28/21 06:27*	*08/03/21 20:10*	*10*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	1200		170		ng/L		07/28/21 06:27	08/04/21 10:35	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*111*		*70 - 130*	*07/28/21 06:27*	*08/04/21 10:35*	*100*
13C2 PFDA	*107*		*70 - 130*	*07/28/21 06:27*	*08/04/21 10:35*	*100*
13C2 PFHxA	*105*		*70 - 130*	*07/28/21 06:27*	*08/04/21 10:35*	*100*

Client Sample ID: KH-0721-EFF

Lab Sample ID: 410-48582-9

Date Collected: 07/21/21 13:25

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:07*	*1*
13C2 PFDA	*97*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:07*	*1*
13C2 PFHxA	*98*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:07*	*1*

Client Sample ID: KH-0721-MID

Lab Sample ID: 410-48582-10

Date Collected: 07/21/21 13:28

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1

Client Sample ID: KH-0721-MID

Date Collected: 07/21/21 13:28
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-10

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:19*	*1*
13C2 PFDA	*93*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:19*	*1*
13C2 PFHxA	*93*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:19*	*1*

Client Sample ID: KH-0721-INF

Date Collected: 07/21/21 13:31
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-11

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**56**		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1
Perfluorononanoic acid	**5.3**		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1
Perfluorobutanesulfonic acid	**39**		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*82*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:30*	*1*
13C2 PFDA	*95*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:30*	*1*
13C2 PFHxA	*88*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:30*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**160**		16		ng/L		07/28/21 06:27	08/03/21 20:22	10
Perfluorooctanoic acid	**89**		16		ng/L		07/28/21 06:27	08/03/21 20:22	10
Perfluorooctanesulfonic acid	**450**		16		ng/L		07/28/21 06:27	08/03/21 20:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*103*		*70 - 130*	*07/28/21 06:27*	*08/03/21 20:22*	*10*
13C2 PFDA	*100*		*70 - 130*	*07/28/21 06:27*	*08/03/21 20:22*	*10*
13C2 PFHxA	*98*		*70 - 130*	*07/28/21 06:27*	*08/03/21 20:22*	*10*

Client Sample ID: KH-0721-INF

Lab Sample ID: 410-48582-11

Date Collected: 07/21/21 13:31

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	590		160		ng/L		07/28/21 06:27	08/04/21 10:47	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*107*		*70 - 130*	*07/28/21 06:27*	*08/04/21 10:47*	*100*
13C2 PFDA	*96*		*70 - 130*	*07/28/21 06:27*	*08/04/21 10:47*	*100*
13C2 PFHxA	*96*		*70 - 130*	*07/28/21 06:27*	*08/04/21 10:47*	*100*

Client Sample ID: QO-0721-EFF

Lab Sample ID: 410-48582-12

Date Collected: 07/21/21 13:55

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:42*	*1*
13C2 PFDA	*88*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:42*	*1*
13C2 PFHxA	*88*		*70 - 130*	*07/28/21 06:27*	*08/03/21 02:42*	*1*

Client Sample ID: QO-0721-MID

Lab Sample ID: 410-48582-13

Date Collected: 07/21/21 13:58

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1

Client Sample ID: QO-0721-MID

Lab Sample ID: 410-48582-13

Date Collected: 07/21/21 13:58

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:05*	*1*
13C2 PFDA	*94*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:05*	*1*
13C2 PFHxA	*95*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:05*	*1*

Client Sample ID: QO-0721-INF

Lab Sample ID: 410-48582-14

Date Collected: 07/21/21 14:01

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**49**		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1
Perfluorononanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1
Perfluorooctanesulfonic acid	**11**		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*81*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:16*	*1*
13C2 PFDA	*142*	*S1+*	*70 - 130*	*07/28/21 06:27*	*08/03/21 03:16*	*1*
13C2 PFHxA	*113*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:16*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**590**		17		ng/L		07/28/21 06:27	08/03/21 20:56	10
Perfluorobutanesulfonic acid	**120**		17		ng/L		07/28/21 06:27	08/03/21 20:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*07/28/21 06:27*	*08/03/21 20:56*	*10*
13C2 PFDA	*104*		*70 - 130*	*07/28/21 06:27*	*08/03/21 20:56*	*10*
13C2 PFHxA	*114*		*70 - 130*	*07/28/21 06:27*	*08/03/21 20:56*	*10*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	**1300**		170		ng/L		07/28/21 06:27	08/03/21 21:08	100
Perfluorohexanesulfonic acid	**1200**		170		ng/L		07/28/21 06:27	08/03/21 21:08	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*07/28/21 06:27*	*08/03/21 21:08*	*100*
13C2 PFDA	*94*		*70 - 130*	*07/28/21 06:27*	*08/03/21 21:08*	*100*
13C2 PFHxA	*100*		*70 - 130*	*07/28/21 06:27*	*08/03/21 21:08*	*100*

Client Sample ID: FM-0721-EFF

Lab Sample ID: 410-48582-15

Date Collected: 07/21/21 14:30

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:28*	*1*
13C2 PFDA	*92*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:28*	*1*
13C2 PFHxA	*95*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:28*	*1*

Client Sample ID: FM-0721-MID

Lab Sample ID: 410-48582-16

Date Collected: 07/21/21 14:33

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:39*	*1*
13C2 PFDA	*94*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:39*	*1*
13C2 PFHxA	*102*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:39*	*1*

Client Sample ID: FM-0721-INF

Date Collected: 07/21/21 14:36
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-17

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**9.0**		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluoroheptanoic acid	**3.1**		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluorononanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluorohexanesulfonic acid	**8.3**		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluorooctanesulfonic acid	**12**		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
NEtFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
NMeFOSAA	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		07/28/21 06:27	08/03/21 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:51*	*1*
13C2 PFDA	*102*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:51*	*1*
13C2 PFHxA	*104*		*70 - 130*	*07/28/21 06:27*	*08/03/21 03:51*	*1*

Client Sample ID: KH-0721-INF DUP

Date Collected: 07/21/21 13:31
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-18

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**64**		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1
Perfluorononanoic acid	**5.8**		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1
Perfluorobutanesulfonic acid	**41**		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1
NEtFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1
NMeFOSAA	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		07/28/21 06:27	08/03/21 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*07/28/21 06:27*	*08/03/21 04:02*	*1*
13C2 PFDA	*102*		*70 - 130*	*07/28/21 06:27*	*08/03/21 04:02*	*1*
13C2 PFHxA	*93*		*70 - 130*	*07/28/21 06:27*	*08/03/21 04:02*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**180**		17		ng/L		07/28/21 06:27	08/03/21 21:19	10
Perfluorooctanoic acid	**97**		17		ng/L		07/28/21 06:27	08/03/21 21:19	10
Perfluorooctanesulfonic acid	**500**		17		ng/L		07/28/21 06:27	08/03/21 21:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*109*		*70 - 130*	*07/28/21 06:27*	*08/03/21 21:19*	*10*
13C2 PFDA	*112*		*70 - 130*	*07/28/21 06:27*	*08/03/21 21:19*	*10*

Client Sample ID: KH-0721-INF DUP

Lab Sample ID: 410-48582-18

Date Collected: 07/21/21 13:31

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*107*		*70 - 130*	*07/28/21 06:27*	*08/03/21 21:19*	*10*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	620		170		ng/L		07/28/21 06:27	08/04/21 10:58	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*105*		*70 - 130*	*07/28/21 06:27*	*08/04/21 10:58*	*100*
13C2 PFDA	*104*		*70 - 130*	*07/28/21 06:27*	*08/04/21 10:58*	*100*
13C2 PFHxA	*102*		*70 - 130*	*07/28/21 06:27*	*08/04/21 10:58*	*100*

Client Sample ID: FB-072121-2

Lab Sample ID: 410-48582-19

Date Collected: 07/21/21 14:05

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluorononanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
NEtFOSAA	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
NMeFOSAA	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*82*		*70 - 130*	*07/28/21 06:27*	*08/03/21 04:14*	*1*
13C2 PFDA	*88*		*70 - 130*	*07/28/21 06:27*	*08/03/21 04:14*	*1*
13C2 PFHxA	*92*		*70 - 130*	*07/28/21 06:27*	*08/03/21 04:14*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 410-48582-20

Date Collected: 07/21/21 00:00

Matrix: Drinking Water

Date Received: 07/23/21 10:30

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluorononanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Client Sample ID: TRIP BLANK

Date Collected: 07/21/21 00:00
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-20

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
NEtFOSAA	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
NMeFOSAA	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		07/28/21 06:27	08/03/21 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*07/28/21 06:27*	*08/03/21 04:25*	*1*
13C2 PFDA	*91*		*70 - 130*	*07/28/21 06:27*	*08/03/21 04:25*	*1*
13C2 PFHxA	*88*		*70 - 130*	*07/28/21 06:27*	*08/03/21 04:25*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-48582-1	VTA-0721-EFF	88	96	105
410-48582-2	VTA-0721-MID	80	88	91
410-48582-3	VTA-0721-INF	98	219 *3 S1+	187 *3 S1+
410-48582-3 - DL	VTA-0721-INF	108	123	119
410-48582-4	VTB-0721-EFF	93	97	97
410-48582-5	VTB-0721-MID	80	91	99
410-48582-6	TD-0721-EFF	83	88	99
410-48582-7	TD-0721-MID	81	90	94
410-48582-8	TD-0721-INF	83	98	93
410-48582-8 - DL	TD-0721-INF	105	101	104
410-48582-8 - DL2	TD-0721-INF	111	107	105
410-48582-9	KH-0721-EFF	89	97	98
410-48582-10	KH-0721-MID	87	93	93
410-48582-11	KH-0721-INF	82	95	88
410-48582-11 - DL	KH-0721-INF	103	100	98
410-48582-11 - DL2	KH-0721-INF	107	96	96
410-48582-12	QO-0721-EFF	87	88	88
410-48582-13	QO-0721-MID	91	94	95
410-48582-14	QO-0721-INF	81	142 S1+	113
410-48582-14 - DL	QO-0721-INF	100	104	114
410-48582-14 - DL2	QO-0721-INF	100	94	100
410-48582-15	FM-0721-EFF	85	92	95
410-48582-16	FM-0721-MID	88	94	102
410-48582-17	FM-0721-INF	96	102	104
410-48582-18	KH-0721-INF DUP	86	102	93
410-48582-18 - DL	KH-0721-INF DUP	109	112	107
410-48582-18 - DL2	KH-0721-INF DUP	105	104	102
410-48582-19	FB-072121-2	82	88	92
410-48582-20	TRIP BLANK	87	91	88
LCS 410-153488/2-A	Lab Control Sample	100	102	101
LCS 410-153505/2-A	Lab Control Sample	87	82	86
LCS 410-156802/2-A	Lab Control Sample	104	100	88
LCSD 410-153488/3-A	Lab Control Sample Dup	101	100	93
LCSD 410-153505/3-A	Lab Control Sample Dup	93	90	92
LCSD 410-156802/3-A	Lab Control Sample Dup	93	96	91
MB 410-153488/1-A	Method Blank	102	97	96
MB 410-153505/1-A	Method Blank	88	79	83
MB 410-156802/1-A	Method Blank	87	91	88

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-153488/1-A
Matrix: Drinking Water
Analysis Batch: 155434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorononanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
NEtFOSAA	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
NMeFOSAA	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		07/28/21 04:42	08/02/21 21:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*102*		*70 - 130*	*07/28/21 04:42*	*08/02/21 21:08*	*1*
13C2 PFDA	*97*		*70 - 130*	*07/28/21 04:42*	*08/02/21 21:08*	*1*
13C2 PFHxA	*96*		*70 - 130*	*07/28/21 04:42*	*08/02/21 21:08*	*1*

Lab Sample ID: LCS 410-153488/2-A
Matrix: Drinking Water
Analysis Batch: 155434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	80.0	77.4		ng/L		97	70 - 130
Perfluoroheptanoic acid	80.0	73.7		ng/L		92	70 - 130
Perfluorooctanoic acid	80.0	70.0		ng/L		87	70 - 130
Perfluorononanoic acid	80.0	71.2		ng/L		89	70 - 130
Perfluorodecanoic acid	80.0	76.4		ng/L		96	70 - 130
Perfluorotridecanoic acid	80.0	72.8		ng/L		91	70 - 130
Perfluorotetradecanoic acid	80.0	72.7		ng/L		91	70 - 130
Perfluorobutanesulfonic acid	70.8	65.6		ng/L		93	70 - 130
Perfluorohexanesulfonic acid	73.0	65.5		ng/L		90	70 - 130
Perfluorooctanesulfonic acid	74.0	64.3		ng/L		87	70 - 130
NEtFOSAA	80.0	80.2	E	ng/L		100	70 - 130
NMeFOSAA	80.0	68.8		ng/L		86	70 - 130
Perfluoroundecanoic acid	80.0	75.0		ng/L		94	70 - 130
Perfluorododecanoic acid	80.0	75.2		ng/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*100*		*70 - 130*
13C2 PFDA	*102*		*70 - 130*
13C2 PFHxA	*101*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-153488/3-A
Matrix: Drinking Water
Analysis Batch: 155434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153488

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	70.7		ng/L		88	70 - 130	9	30
Perfluoroheptanoic acid			80.0	73.2		ng/L		92	70 - 130	1	30
Perfluorooctanoic acid			80.0	70.4		ng/L		88	70 - 130	1	30
Perfluorononanoic acid			80.0	71.0		ng/L		89	70 - 130	0	30
Perfluorodecanoic acid			80.0	74.4		ng/L		93	70 - 130	3	30
Perfluorotridecanoic acid			80.0	72.6		ng/L		91	70 - 130	0	30
Perfluorotetradecanoic acid			80.0	70.9		ng/L		89	70 - 130	2	30
Perfluorobutanesulfonic acid			70.8	56.2		ng/L		79	70 - 130	15	30
Perfluorohexanesulfonic acid			73.0	68.4		ng/L		94	70 - 130	4	30
Perfluorooctanesulfonic acid			74.0	65.9		ng/L		89	70 - 130	3	30
NEtFOSAA			80.0	79.0		ng/L		99	70 - 130	1	30
NMeFOSAA			80.0	73.7		ng/L		92	70 - 130	7	30
Perfluoroundecanoic acid			80.0	73.3		ng/L		92	70 - 130	2	30
Perfluorododecanoic acid			80.0	73.2		ng/L		92	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*101*		*70 - 130*
13C2 PFDA	*100*		*70 - 130*
13C2 PFHxA	*93*		*70 - 130*

Lab Sample ID: MB 410-153505/1-A
Matrix: Drinking Water
Analysis Batch: 155434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluorononanoic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
NEtFOSAA	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
NMeFOSAA	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		07/28/21 06:27	08/03/21 00:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*07/28/21 06:27*	*08/03/21 00:58*	*1*
13C2 PFDA	*79*		*70 - 130*	*07/28/21 06:27*	*08/03/21 00:58*	*1*
13C2 PFHxA	*83*		*70 - 130*	*07/28/21 06:27*	*08/03/21 00:58*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCS 410-153505/2-A
Matrix: Drinking Water
Analysis Batch: 155434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153505

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			20.5	19.1		ng/L		93	70 - 130		
Perfluoroheptanoic acid			20.5	18.5		ng/L		90	70 - 130		
Perfluorooctanoic acid			20.5	18.9		ng/L		92	70 - 130		
Perfluorononanoic acid			20.5	18.7		ng/L		91	70 - 130		
Perfluorodecanoic acid			20.5	19.4		ng/L		95	70 - 130		
Perfluorotridecanoic acid			20.5	18.6		ng/L		91	70 - 130		
Perfluorotetradecanoic acid			20.5	18.6		ng/L		91	70 - 130		
Perfluorobutanesulfonic acid			18.1	16.9		ng/L		93	70 - 130		
Perfluorohexanesulfonic acid			18.7	15.5		ng/L		83	70 - 130		
Perfluorooctanesulfonic acid			19.0	16.1		ng/L		85	70 - 130		
NEtFOSAA			20.5	21.2		ng/L		103	70 - 130		
NMeFOSAA			20.5	18.3		ng/L		89	70 - 130		
Perfluoroundecanoic acid			20.5	18.8		ng/L		92	70 - 130		
Perfluorododecanoic acid			20.5	18.4		ng/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*87*		*70 - 130*
13C2 PFDA	*82*		*70 - 130*
13C2 PFHxA	*86*		*70 - 130*

Lab Sample ID: LCSD 410-153505/3-A
Matrix: Drinking Water
Analysis Batch: 155434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153505

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	20.4		ng/L		99	70 - 130	6	30
Perfluoroheptanoic acid			20.5	19.4		ng/L		95	70 - 130	5	30
Perfluorooctanoic acid			20.5	21.0		ng/L		102	70 - 130	10	30
Perfluorononanoic acid			20.5	19.8		ng/L		97	70 - 130	6	30
Perfluorodecanoic acid			20.5	20.9		ng/L		102	70 - 130	7	30
Perfluorotridecanoic acid			20.5	21.0		ng/L		102	70 - 130	12	30
Perfluorotetradecanoic acid			20.5	20.0		ng/L		98	70 - 130	8	30
Perfluorobutanesulfonic acid			18.1	18.8		ng/L		104	70 - 130	10	30
Perfluorohexanesulfonic acid			18.7	18.3		ng/L		98	70 - 130	17	30
Perfluorooctanesulfonic acid			19.0	18.1		ng/L		95	70 - 130	12	30
NEtFOSAA			20.5	22.0		ng/L		107	70 - 130	4	30
NMeFOSAA			20.5	20.4		ng/L		100	70 - 130	11	30
Perfluoroundecanoic acid			20.5	20.4		ng/L		100	70 - 130	8	30
Perfluorododecanoic acid			20.5	20.4		ng/L		99	70 - 130	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*93*		*70 - 130*
13C2 PFDA	*90*		*70 - 130*
13C2 PFHxA	*92*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: MB 410-156802/1-A
Matrix: Drinking Water
Analysis Batch: 157517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluorononanoic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
NEtFOSAA	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
NMeFOSAA	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		08/05/21 05:04	08/06/21 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*08/05/21 05:04*	*08/06/21 12:22*	*1*
13C2 PFDA	*91*		*70 - 130*	*08/05/21 05:04*	*08/06/21 12:22*	*1*
13C2 PFHxA	*88*		*70 - 130*	*08/05/21 05:04*	*08/06/21 12:22*	*1*

Lab Sample ID: LCS 410-156802/2-A
Matrix: Drinking Water
Analysis Batch: 157517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	17.5		ng/L		85	70 - 130
Perfluoroheptanoic acid	20.5	18.5		ng/L		91	70 - 130
Perfluorooctanoic acid	20.5	18.8		ng/L		92	70 - 130
Perfluorononanoic acid	20.5	19.8		ng/L		97	70 - 130
Perfluorodecanoic acid	20.5	19.1		ng/L		93	70 - 130
Perfluorotridecanoic acid	20.5	19.6		ng/L		96	70 - 130
Perfluorotetradecanoic acid	20.5	19.1		ng/L		94	70 - 130
Perfluorobutanesulfonic acid	18.1	14.0		ng/L		77	70 - 130
Perfluorohexanesulfonic acid	18.7	17.8		ng/L		95	70 - 130
Perfluorooctanesulfonic acid	19.0	18.8		ng/L		99	70 - 130
NEtFOSAA	20.5	19.7		ng/L		96	70 - 130
NMeFOSAA	20.5	17.4		ng/L		85	70 - 130
Perfluoroundecanoic acid	20.5	19.7		ng/L		96	70 - 130
Perfluorododecanoic acid	20.5	19.7		ng/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*104*		*70 - 130*
13C2 PFDA	*100*		*70 - 130*
13C2 PFHxA	*88*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-156802/3-A
Matrix: Drinking Water
Analysis Batch: 157517

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 156802

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	16.8		ng/L		82	70 - 130	4	30
Perfluoroheptanoic acid			20.5	19.4		ng/L		95	70 - 130	5	30
Perfluorooctanoic acid			20.5	19.3		ng/L		94	70 - 130	2	30
Perfluorononanoic acid			20.5	18.6		ng/L		91	70 - 130	6	30
Perfluorodecanoic acid			20.5	19.8		ng/L		97	70 - 130	3	30
Perfluorotridecanoic acid			20.5	20.1		ng/L		98	70 - 130	3	30
Perfluorotetradecanoic acid			20.5	19.8		ng/L		97	70 - 130	3	30
Perfluorobutanesulfonic acid			18.1	13.3		ng/L		73	70 - 130	5	30
Perfluorohexanesulfonic acid			18.7	17.2		ng/L		92	70 - 130	4	30
Perfluorooctanesulfonic acid			19.0	18.2		ng/L		96	70 - 130	3	30
NEtFOSAA			20.5	17.9		ng/L		87	70 - 130	10	30
NMeFOSAA			20.5	18.5		ng/L		90	70 - 130	6	30
Perfluoroundecanoic acid			20.5	20.3		ng/L		99	70 - 130	3	30
Perfluorododecanoic acid			20.5	20.0		ng/L		98	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*93*		*70 - 130*
13C2 PFDA	*96*		*70 - 130*
13C2 PFHxA	*91*		*70 - 130*

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

LCMS

Prep Batch: 153488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48582-1	VTA-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-2	VTA-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-3 - RA	VTA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-3	VTA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-3 - DL	VTA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-4	VTB-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-5	VTB-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-6	TD-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-153488/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-153488/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-153488/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Prep Batch: 153505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48582-7	TD-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-8 - DL2	TD-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-8 - DL	TD-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-8	TD-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-9	KH-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-10	KH-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-11	KH-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-11 - DL2	KH-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-11 - DL	KH-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-12	QO-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-13	QO-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-14 - DL	QO-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-14 - DL2	QO-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-14	QO-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-15	FM-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-16	FM-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-17	FM-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-18	KH-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-18 - DL2	KH-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-18 - DL	KH-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-19	FB-072121-2	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-48582-20	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-153505/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-153505/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-153505/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 155434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48582-1	VTA-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48582-2	VTA-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48582-3	VTA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48582-4	VTB-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48582-5	VTB-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48582-6	TD-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48582-7	TD-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-8	TD-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-9	KH-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505

LCMS (Continued)

Analysis Batch: 155434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48582-10	KH-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-11	KH-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-12	QO-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-13	QO-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-14	QO-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-15	FM-0721-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-16	FM-0721-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-17	FM-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-18	KH-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-19	FB-072121-2	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-20	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
MB 410-153488/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
MB 410-153505/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
LCS 410-153488/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
LCS 410-153505/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
LCSD 410-153488/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
LCSD 410-153505/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505

Analysis Batch: 155702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48582-3 - RA	VTA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48582-3 - DL	VTA-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153488
410-48582-8 - DL	TD-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-11 - DL	KH-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-14 - DL	QO-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-14 - DL2	QO-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-18 - DL	KH-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505

Analysis Batch: 156420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48582-8 - DL2	TD-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-11 - DL2	KH-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505
410-48582-18 - DL2	KH-0721-INF DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	153505

Prep Batch: 156802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48582-14 - RE	QO-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-156802/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-156802/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-156802/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 157517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-48582-14 - RE	QO-0721-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	156802
MB 410-156802/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	156802
LCS 410-156802/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	156802
LCSD 410-156802/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	156802

Client Sample ID: VTA-0721-EFF
Lab Sample ID: 410-48582-1

Date Collected: 07/21/21 11:55
Matrix: Drinking Water
Date Received: 07/23/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 23:26	Y6ZN	ELLE

Client Sample ID: VTA-0721-MID
Lab Sample ID: 410-48582-2

Date Collected: 07/21/21 11:58
Matrix: Drinking Water
Date Received: 07/23/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/02/21 23:37	Y6ZN	ELLE

Client Sample ID: VTA-0721-INF
Lab Sample ID: 410-48582-3

Date Collected: 07/21/21 12:01
Matrix: Drinking Water
Date Received: 07/23/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 00:00	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	RA		153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	RA	1	155702	08/03/21 19:13	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	155702	08/03/21 19:36	DCS9	ELLE

Client Sample ID: VTB-0721-EFF
Lab Sample ID: 410-48582-4

Date Collected: 07/21/21 12:05
Matrix: Drinking Water
Date Received: 07/23/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 00:12	Y6ZN	ELLE

Client Sample ID: VTB-0721-MID
Lab Sample ID: 410-48582-5

Date Collected: 07/21/21 12:08
Matrix: Drinking Water
Date Received: 07/23/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 00:23	Y6ZN	ELLE

Client Sample ID: TD-0721-EFF
Lab Sample ID: 410-48582-6

Date Collected: 07/21/21 12:55
Matrix: Drinking Water
Date Received: 07/23/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153488	07/28/21 04:42	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 00:35	Y6ZN	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Client Sample ID: TD-0721-MID
Date Collected: 07/21/21 12:58
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-7
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 01:44	Y6ZN	ELLE

Client Sample ID: TD-0721-INF
Date Collected: 07/21/21 13:01
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-8
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 01:56	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	155702	08/03/21 20:10	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	156420	08/04/21 10:35	DCS9	ELLE

Client Sample ID: KH-0721-EFF
Date Collected: 07/21/21 13:25
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-9
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 02:07	Y6ZN	ELLE

Client Sample ID: KH-0721-MID
Date Collected: 07/21/21 13:28
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-10
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 02:19	Y6ZN	ELLE

Client Sample ID: KH-0721-INF
Date Collected: 07/21/21 13:31
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-11
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 02:30	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	155702	08/03/21 20:22	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	156420	08/04/21 10:47	DCS9	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Client Sample ID: QO-0721-EFF
Date Collected: 07/21/21 13:55
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-12
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 02:42	Y6ZN	ELLE

Client Sample ID: QO-0721-MID
Date Collected: 07/21/21 13:58
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-13
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 03:05	Y6ZN	ELLE

Client Sample ID: QO-0721-INF
Date Collected: 07/21/21 14:01
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-14
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 03:16	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	155702	08/03/21 20:56	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	155702	08/03/21 21:08	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	RE		156802	08/05/21 05:04	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	157517	08/06/21 13:08	DCS9	ELLE

Client Sample ID: FM-0721-EFF
Date Collected: 07/21/21 14:30
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-15
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 03:28	Y6ZN	ELLE

Client Sample ID: FM-0721-MID
Date Collected: 07/21/21 14:33
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-16
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 03:39	Y6ZN	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Client Sample ID: FM-0721-INF
Date Collected: 07/21/21 14:36
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-17
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 03:51	Y6ZN	ELLE

Client Sample ID: KH-0721-INF DUP
Date Collected: 07/21/21 13:31
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-18
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 04:02	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	155702	08/03/21 21:19	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	156420	08/04/21 10:58	DCS9	ELLE

Client Sample ID: FB-072121-2
Date Collected: 07/21/21 14:05
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-19
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 04:14	Y6ZN	ELLE

Client Sample ID: TRIP BLANK
Date Collected: 07/21/21 00:00
Date Received: 07/23/21 10:30

Lab Sample ID: 410-48582-20
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			153505	07/28/21 06:27	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	155434	08/03/21 04:25	Y6ZN	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-48582-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-48582-1	VTA-0721-EFF	Drinking Water	07/21/21 11:55	07/23/21 10:30
410-48582-2	VTA-0721-MID	Drinking Water	07/21/21 11:58	07/23/21 10:30
410-48582-3	VTA-0721-INF	Drinking Water	07/21/21 12:01	07/23/21 10:30
410-48582-4	VTB-0721-EFF	Drinking Water	07/21/21 12:05	07/23/21 10:30
410-48582-5	VTB-0721-MID	Drinking Water	07/21/21 12:08	07/23/21 10:30
410-48582-6	TD-0721-EFF	Drinking Water	07/21/21 12:55	07/23/21 10:30
410-48582-7	TD-0721-MID	Drinking Water	07/21/21 12:58	07/23/21 10:30
410-48582-8	TD-0721-INF	Drinking Water	07/21/21 13:01	07/23/21 10:30
410-48582-9	KH-0721-EFF	Drinking Water	07/21/21 13:25	07/23/21 10:30
410-48582-10	KH-0721-MID	Drinking Water	07/21/21 13:28	07/23/21 10:30
410-48582-11	KH-0721-INF	Drinking Water	07/21/21 13:31	07/23/21 10:30
410-48582-12	QO-0721-EFF	Drinking Water	07/21/21 13:55	07/23/21 10:30
410-48582-13	QO-0721-MID	Drinking Water	07/21/21 13:58	07/23/21 10:30
410-48582-14	QO-0721-INF	Drinking Water	07/21/21 14:01	07/23/21 10:30
410-48582-15	FM-0721-EFF	Drinking Water	07/21/21 14:30	07/23/21 10:30
410-48582-16	FM-0721-MID	Drinking Water	07/21/21 14:33	07/23/21 10:30
410-48582-17	FM-0721-INF	Drinking Water	07/21/21 14:36	07/23/21 10:30
410-48582-18	KH-0721-INF DUP	Drinking Water	07/21/21 13:31	07/23/21 10:30
410-48582-19	FB-072121-2	Drinking Water	07/21/21 14:05	07/23/21 10:30
410-48582-20	TRIP BLANK	Drinking Water	07/21/21 00:00	07/23/21 10:30

LLC

Chain of Custody Record

eurofins Environment Testing America

410-48582 Chain of Custody

Client Contact: Mr. Matthew Kenney	Sampler: N. WOODMAN / M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-29567-8491 4
Company: Weston Solutions, Inc.	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 37 of 39
Address: 43 North Main Street	PWSID:	Analysis Requested		Job #:
City: Concord	Due Date Requested:			Preservation Codes:
State, Zip: NH, 03301	TAT Requested (days): STANDARD			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Phone: 860 712 2684	Compliance Project: Δ Yes Δ No			Other:
Email: Matthew.Kenney@WestonSolutions.com	PO #: 0102971			
Project Name: Nantucket	WO #:			
Site:	Project #: 41004986			
	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
VTA-0721-EFF	7/21/21	1155	G	Drinking Wate			X			
VTA-0721-MID		1158		Drinking Wate			X			
VTA-0721-INF		1201		Drinking Wate			X			
VTB-0721-EFF		1205		Drinking Wate			X			
VTB-0721-MID		1208		Drinking Wate			X			
TD-0721-EFF		1255		Drinking Wate			X			
TD-0721-MID		1258		Drinking Wate			X			
TD-0721-INF		1301		Drinking Wate			X			
KH-0721-EFF		1325		Drinking Wate			X			
KH-0721-MID		1328		Drinking Wate			X			
KH-0721-INF		1331		Drinking Wate			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: MA NCP

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	7/22/21 1440	WESTON	SEALED COOLER		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	7/23/21 1030	DHL

Custody Seals Intact: X Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 8.5

Ver: 06/08/2021 KAM

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-29567-8491.5
Client Contact: Mr. Matthew Kenney	Phone:	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: 2 Page 6 of 8
Company: Weston Solutions, Inc.	PWSID:			Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41004986			
Site:	SSOW#:			

Analysis Requested

Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 537_DW - Potable 14 Standard | 537_DW - Potable 14 Standard

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Special Instructions/Note:
QO-0721-EFF	7/21/21	1355	G	Drinking Water	X		
QO-0721-MID		1358		Drinking Water	X		
QO-0721-INF		1401		Drinking Water	X		
FM-0721-EFF		1430		Drinking Water	X		
FM-0721-MID		1433		Drinking Water	X		
FM-0721-INF		1436		Drinking Water	X		
KH-0721-INF DUP		1331		Drinking Water	X		
FB-012121-2		1405		Drinking Water	X		M. KENNEY
TRIP BLANK		—		Drinking Water	X		
				Drinking Water			
MK				Drinking Water			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 7/22/21 1440	Company: WESTON	Received by: SEALED COOLER
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by: [signature]

Date/Time: 7/23/21 1030 Company: EV

Custody Seals Intact: X Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 8.5

Ver: 06/08/2021

MR

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-48582-1

Login Number: 48582
List Number: 1
Creator: Reiff, Nicole L

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-49501-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
8/9/2021 8:06:26 AM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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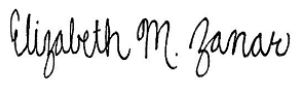

Elizabeth Zanar
Project Manager
8/9/2021 8:06:26 AM

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Job ID: 410-49501-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-49501-1

Receipt
The samples were received on 7/31/2021 9:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C

PFAS
Method PFC_IDA: The recovery for the labeled isotope(s) in the following sample: SRJ-49-R-01-02 (410-49501-1), SRJ-49-R-02-04 (410-49501-2), SRJ-49-A-01-02 (410-49501-5), SRJ-49-D-01-02 (410-49501-15), SRJ-49-G-00-01 (410-49501-24) and SRJ-49-G-01-02 (410-49501-25) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the labeled isotope(s) is again outside the QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) in the following samples: FB-072821 (410-49501-3), EB-072821 (410-49501-23) and FB-072821-2 (410-49501-35) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the sample, the data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) in the method blank associated with the following sample(s): FB-072821 (410-49501-3), EB-072821 (410-49501-23) and FB-072821-2 (410-49501-35) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the blank, the data is reported. The recovery for the labeled isotope(s) in the laboratory control spike sample(s) associated with the following sample(s): FB-072821 (410-49501-3), EB-072821 (410-49501-23) and FB-072821-2 (410-49501-35) is outside the QC acceptance limits. Since the recovery for target analyte(s) is within the limits, the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: SRJ-49-R-01-02 — Lab Sample ID: 410-49501-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.59	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.76		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	2.9		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	51		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanesulfonic acid	1.5	I	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.32	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	0.68	J	2.1	0.63	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	0.63	J	3.1	0.63	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SRJ-49-R-02-04 — Lab Sample ID: 410-49501-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.40	J	0.56	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.29	J	0.56	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.31	J	0.56	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	36		0.56	0.19	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	1.9		1.9	0.56	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: FB-072821 — Lab Sample ID: 410-49501-3

No Detections.

Client Sample ID: SRJ-49-A-00-01 — Lab Sample ID: 410-49501-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.73		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.88		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.0		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.55	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	5.6		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	1.2		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorotetradecanoic acid	0.77		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	1.3		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	13		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	21		2.0	0.61	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanesulfonic acid	0.70		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanesulfonic acid	0.38	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanesulfonic acid (PFDoS)	0.31	J	2.0	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	0.94		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexadecanoic acid	0.23	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.1		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	3.0		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	7.5		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	2.4		2.0	0.61	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	4.0		3.1	0.61	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SRJ-49-A-01-02 — Lab Sample ID: 410-49501-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.25	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.24	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.94		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: SRJ-49-A-01-02 (Continued)

Lab Sample ID: 410-49501-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	1.4		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	6.2		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.24	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	140		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	0.21	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.43	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	0.86	J	2.0	0.61	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	6.2		3.1	0.61	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SRJ-49-D-00-01

Lab Sample ID: 410-49501-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.49	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.53	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.76		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.41	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	4.3		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	2.3		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorotetradecanoic acid	1.8		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanesulfonic acid	0.54	J	2.1	0.41	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	3.3		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	28		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	32		2.1	0.62	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanesulfonic acid	0.64		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanesulfonic acid	0.29	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanesulfonic acid	0.42	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanesulfonic acid	0.54	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanesulfonic acid (PFDoS)	0.60	J	2.1	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	0.70		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexadecanoic acid	0.45	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.59	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	4.8		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	5.1		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	7.8		2.1	0.62	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	7.0		3.1	0.62	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SRJ-49-D-00-01 DUP

Lab Sample ID: 410-49501-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.53	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.76		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.94		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.52	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	6.5		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	1.1		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorotetradecanoic acid	0.85		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	1.4		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	13		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	27		2.0	0.61	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanesulfonic acid	0.28	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanesulfonic acid	0.85		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SRJ-49-D-00-01 DUP (Continued)

Lab Sample ID: 410-49501-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanesulfonic acid	0.42	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanesulfonic acid (PFDoS)	0.39	J	2.0	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	0.67		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.81		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	2.8		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	6.2		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	3.0		2.0	0.61	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	8.5		3.1	0.61	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SRJ-49-D-01-02

Lab Sample ID: 410-49501-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.51	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.85		0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	2.2		0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	120		0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.29	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	1.0	J	2.2	0.66	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	1.7	J	3.3	0.66	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: EB-072821

Lab Sample ID: 410-49501-23

No Detections.

Client Sample ID: SRJ-49-G-00-01

Lab Sample ID: 410-49501-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.25	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.69		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.47	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.94		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	4.0		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	3.2		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.45	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.25	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	1.1		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SRJ-49-G-01-02

Lab Sample ID: 410-49501-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.34	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.47	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	1.7		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.36	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	53		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.32	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 410-49501-34

No Detections.

Client Sample ID: FB-072821-2

Lab Sample ID: 410-49501-35

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: SRJ-49-R-01-02
Date Collected: 07/28/21 11:55
Date Received: 07/31/21 09:58

Lab Sample ID: 410-49501-1
Matrix: Solid
Percent Solids: 90.8

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluoroheptanoic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorooctanoic acid	**0.59**	**J**	0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorononanoic acid	**0.76**		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorodecanoic acid	**2.9**		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorotridecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorohexanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorooctanesulfonic acid	**51**		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
10:2 FTS	<0.63		2.1	0.63	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorononanesulfonic acid	**1.5**	**I**	0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorobutanoic acid	<0.84		2.1	0.84	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluoropentanoic acid	**0.32**	**J**	0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
DONA	<0.21		3.1	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
Perfluoroundecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
6:2 Fluorotelomer sulfonic acid	**0.68**	**J**	2.1	0.63	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1
8:2 Fluorotelomer sulfonic acid	**0.63**	**J**	3.1	0.63	ng/g	☼	08/03/21 07:22	08/04/21 05:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*60*		*10 - 169*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
M2-8:2 FTS	*93*		*10 - 178*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
M2-6:2 FTS	*78*		*10 - 182*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C5 PFHxA	*61*		*11 - 138*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C4 PFHpA	*69*		*15 - 139*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C8 PFOA	*67*		*21 - 133*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C9 PFNA	*70*		*15 - 145*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C6 PFDA	*75*		*21 - 134*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C7 PFUnA	*81*		*15 - 138*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C2-PFDoDA	*80*		*28 - 126*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C2 PFTeDA	*78*		*10 - 138*	*08/03/21 07:22*	*08/04/21 05:52*	*1*

Client Sample ID: SRJ-49-R-01-02

Lab Sample ID: 410-49501-1

Date Collected: 07/28/21 11:55
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 90.8

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 PFBS	*100*		*23 - 130*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C3 PFHxS	*96*		*24 - 136*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C8 PFOS	*93*		*31 - 130*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 172*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
d5-NEtFOSAA	*3*	**5-*	*10 - 176*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C8 FOSA	*122*		*25 - 135*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C4 PFBA	*61*		*12 - 137*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C5 PFPeA	*68*		*12 - 135*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
d7-N-MeFOSE-M	*139*		*10 - 152*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
d3-NMePFOSA	*113*		*10 - 148*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
d9-N-EtFOSE-M	*142*		*10 - 157*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
d5-NEtPFOSA	*122*		*10 - 151*	*08/03/21 07:22*	*08/04/21 05:52*	*1*
13C3 HFPO-DA	*76*		*10 - 152*	*08/03/21 07:22*	*08/04/21 05:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: SRJ-49-R-02-04

Lab Sample ID: 410-49501-2

Date Collected: 07/28/21 12:00
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 97.1

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluoroheptanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorooctanoic acid	**0.40**	**J**	0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorononanoic acid	**0.29**	**J**	0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorodecanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorotridecanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorotetradecanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorobutanesulfonic acid	<0.37		1.9	0.37	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorohexanesulfonic acid	**0.31**	**J**	0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorooctanesulfonic acid	**36**		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
10:2 FTS	<0.56		1.9	0.56	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluoropentanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluoroheptanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorononanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorodecanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorooctanesulfonamide	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorohexadecanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorooctadecanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorobutanoic acid	<0.75		1.9	0.75	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluoropentanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
NMeFOSE	<0.47		1.9	0.47	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
NMeFOSA	<0.47		1.9	0.47	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1

Client Sample ID: SRJ-49-R-02-04
Date Collected: 07/28/21 12:00
Date Received: 07/31/21 09:58

Lab Sample ID: 410-49501-2
Matrix: Solid
Percent Solids: 97.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.47		1.9	0.47	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
NEtFOSA	<0.47		1.9	0.47	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
HFPODA	<0.37		1.9	0.37	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
DONA	<0.19		2.8	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
11Cl-PF3OUdS	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluorododecanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
4:2 Fluorotelomer sulfonic acid	<0.56		1.9	0.56	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
Perfluoroundecanoic acid	<0.19		0.56	0.19	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
6:2 Fluorotelomer sulfonic acid	**1.9**		1.9	0.56	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1
8:2 Fluorotelomer sulfonic acid	<0.56		2.8	0.56	ng/g	☼	08/03/21 07:22	08/04/21 06:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*50*		*10 - 169*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
M2-8:2 FTS	*67*		*10 - 178*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
M2-6:2 FTS	*56*		*10 - 182*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C5 PFHxA	*54*		*11 - 138*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C4 PFHpA	*62*		*15 - 139*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C8 PFOA	*56*		*21 - 133*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C9 PFNA	*57*		*15 - 145*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C6 PFDA	*62*		*21 - 134*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C7 PFUnA	*64*		*15 - 138*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C2-PFDoDA	*62*		*28 - 126*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C2 PFTeDA	*62*		*10 - 138*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C3 PFBS	*88*		*23 - 130*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C3 PFHxS	*94*		*24 - 136*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C8 PFOS	*82*		*31 - 130*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 172*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
d5-NEtFOSAA	*4*	**5-*	*10 - 176*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C8 FOSA	*111*		*25 - 135*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C4 PFBA	*49*		*12 - 137*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C5 PFPeA	*55*		*12 - 135*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
d7-N-MeFOSE-M	*123*		*10 - 152*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
d3-NMePFOSA	*110*		*10 - 148*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
d9-N-EtFOSE-M	*131*		*10 - 157*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
d5-NEtPFOSA	*114*		*10 - 151*	*08/03/21 07:22*	*08/04/21 06:03*	*1*
13C3 HFPO-DA	*78*		*10 - 152*	*08/03/21 07:22*	*08/04/21 06:03*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution - RE

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*61*		*10 - 138*	*08/05/21 07:07*	*08/06/21 07:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.9**		1.0	1.0	%			08/02/21 06:20	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: FB-072821

Date Collected: 07/28/21 11:40
Date Received: 07/31/21 09:58

Lab Sample ID: 410-49501-3

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluoroheptanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorooctanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorononanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorodecanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorotridecanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorotetradecanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorobutanesulfonic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorohexanesulfonic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorooctanesulfonic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
NEtFOSAA	<0.43		2.6	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		08/02/21 07:33	08/03/21 08:53	1
10:2 FTS	<0.87		4.3	0.87	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluoropentanesulfonic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluoroheptanesulfonic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorononanesulfonic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorodecanesulfonic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		2.6	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorooctanesulfonamide	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorohexadecanoic acid	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorooctadecanoic acid	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorobutanoic acid	<1.7		4.3	1.7	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluoropentanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
NMeFOSE	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 08:53	1
NMeFOSA	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 08:53	1
NEtFOSE	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 08:53	1
NEtFOSA	<0.87		4.3	0.87	ng/L		08/02/21 07:33	08/03/21 08:53	1
HFPODA	<0.43		2.6	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
DONA	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
9Cl-PF3ONS	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
11Cl-PF3OUdS	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluorododecanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
4:2 Fluorotelomer sulfonic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
Perfluoroundecanoic acid	<0.43		1.7	0.43	ng/L		08/02/21 07:33	08/03/21 08:53	1
6:2 Fluorotelomer sulfonic acid	<1.7		4.3	1.7	ng/L		08/02/21 07:33	08/03/21 08:53	1
8:2 Fluorotelomer sulfonic acid	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 08:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*159*		*20 - 187*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
M2-8:2 FTS	*170*		*34 - 182*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
M2-6:2 FTS	*161*		*29 - 189*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
13C5 PFHxA	*148*	**5+*	*31 - 142*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
13C4 PFHpA	*155*	**5+*	*30 - 144*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
13C8 PFOA	*139*	**5+*	*49 - 127*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
13C9 PFNA	*148*	**5+*	*47 - 136*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
13C6 PFDA	*147*	**5+*	*47 - 128*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
13C7 PFUnA	*164*	**5+*	*40 - 135*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
13C2-PFDoDA	*151*	**5+*	*28 - 136*	*08/02/21 07:33*	*08/03/21 08:53*	*1*
13C2 PFTeDA	*138*		*10 - 144*	*08/02/21 07:33*	*08/03/21 08:53*	*1*

Client Sample ID: FB-072821

Lab Sample ID: 410-49501-3

Date Collected: 07/28/21 11:40

Matrix: Water

Date Received: 07/31/21 09:58

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	149		19 - 178	08/02/21 07:33	08/03/21 08:53	1
13C3 PFHxS	144		32 - 145	08/02/21 07:33	08/03/21 08:53	1
13C8 PFOS	146	*5+	49 - 126	08/02/21 07:33	08/03/21 08:53	1
d3-NMeFOSAA	150		32 - 151	08/02/21 07:33	08/03/21 08:53	1
d5-NEtFOSAA	164		37 - 164	08/02/21 07:33	08/03/21 08:53	1
13C8 FOSA	128		10 - 143	08/02/21 07:33	08/03/21 08:53	1
13C4 PFBA	143	*5+	41 - 132	08/02/21 07:33	08/03/21 08:53	1
13C5 PFPeA	151		33 - 155	08/02/21 07:33	08/03/21 08:53	1
d7-N-MeFOSE-M	98		10 - 143	08/02/21 07:33	08/03/21 08:53	1
d3-NMePFOSA	38		10 - 107	08/02/21 07:33	08/03/21 08:53	1
d9-N-EtFOSE-M	99		10 - 142	08/02/21 07:33	08/03/21 08:53	1
d5-NEtPFOSA	40		10 - 108	08/02/21 07:33	08/03/21 08:53	1
13C3 HFPO-DA	183	*5+	20 - 153	08/02/21 07:33	08/03/21 08:53	1

Client Sample ID: SRJ-49-A-00-01

Lab Sample ID: 410-49501-4

Date Collected: 07/28/21 12:15

Matrix: Solid

Date Received: 07/31/21 09:58

Percent Solids: 92.1

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.73**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluoroheptanoic acid	**0.88**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorooctanoic acid	**1.0**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorononanoic acid	**0.55**	**J**	0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorodecanoic acid	**5.6**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorotridecanoic acid	**1.2**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorotetradecanoic acid	**0.77**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorobutanesulfonic acid	<0.41		2.0	0.41	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorohexanesulfonic acid	**1.3**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorooctanesulfonic acid	**13**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
10:2 FTS	**21**		2.0	0.61	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluoropentanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluoroheptanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorononanesulfonic acid	**0.70**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorodecanesulfonic acid	**0.38**	**J**	0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorododecanesulfonic acid (PFDoS)	**0.31**	**J**	2.0	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorooctanesulfonamide	**0.94**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorohexadecanoic acid	**0.23**	**J**	0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorooctadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorobutanoic acid	<0.82		2.0	0.82	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluoropentanoic acid	**1.1**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
NMeFOSE	<0.51		2.0	0.51	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
NMeFOSA	<0.51		2.0	0.51	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
NEtFOSE	<0.51		2.0	0.51	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
NEtFOSA	<0.51		2.0	0.51	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
HFPODA	<0.41		2.0	0.41	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
DONA	<0.20		3.1	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1

Client Sample ID: SRJ-49-A-00-01

Lab Sample ID: 410-49501-4

Date Collected: 07/28/21 12:15
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 92.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
11Cl-PF3OUdS	<0.20		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluorododecanoic acid	**3.0**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
4:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
Perfluoroundecanoic acid	**7.5**		0.61	0.20	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
6:2 Fluorotelomer sulfonic acid	**2.4**		2.0	0.61	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1
8:2 Fluorotelomer sulfonic acid	**4.0**		3.1	0.61	ng/g	☼	08/05/21 07:07	08/06/21 07:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*10 - 169*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
M2-8:2 FTS	*100*		*10 - 178*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
M2-6:2 FTS	*94*		*10 - 182*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C5 PFHxA	*73*		*11 - 138*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C4 PFHpA	*86*		*15 - 139*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C8 PFOA	*79*		*21 - 133*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C9 PFNA	*80*		*15 - 145*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C6 PFDA	*90*		*21 - 134*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C7 PFUnA	*90*		*15 - 138*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C2-PFDoDA	*90*		*28 - 126*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C2 PFTeDA	*87*		*10 - 138*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C3 PFBS	*102*		*23 - 130*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C3 PFHxS	*103*		*24 - 136*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C8 PFOS	*91*		*31 - 130*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
d3-NMeFOSAA	*10*		*10 - 172*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
d5-NEtFOSAA	*14*		*10 - 176*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C8 FOSA	*82*		*25 - 135*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C4 PFBA	*66*		*12 - 137*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C5 PFPeA	*76*		*12 - 135*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
d7-N-MeFOSE-M	*84*		*10 - 152*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
d3-NMePFOSA	*73*		*10 - 148*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
d9-N-EtFOSE-M	*85*		*10 - 157*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
d5-NEtPFOSA	*72*		*10 - 151*	*08/05/21 07:07*	*08/06/21 07:17*	*1*
13C3 HFPO-DA	*85*		*10 - 152*	*08/05/21 07:07*	*08/06/21 07:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: SRJ-49-A-01-02

Lab Sample ID: 410-49501-5

Date Collected: 07/28/21 12:20
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 91.2

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.25**	**J**	0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluoroheptanoic acid	**0.24**	**J**	0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorooctanoic acid	**0.94**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorononanoic acid	**1.4**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorodecanoic acid	**6.2**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorotridecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorotetradecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: SRJ-49-A-01-02
Date Collected: 07/28/21 12:20
Date Received: 07/31/21 09:58

Lab Sample ID: 410-49501-5
Matrix: Solid
Percent Solids: 91.2

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid	<0.41		2.0	0.41	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorohexanesulfonic acid	**0.24**	**J**	0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorooctanesulfonic acid	**140**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
10:2 FTS	<0.61		2.0	0.61	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluoropentanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluoroheptanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorononanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorodecanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorooctanesulfonamide	**0.21**	**J**	0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorohexadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorooctadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorobutanoic acid	<0.82		2.0	0.82	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluoropentanoic acid	**0.43**	**J**	0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
NMeFOSE	<0.51		2.0	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
NMeFOSA	<0.51		2.0	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
NEtFOSE	<0.51		2.0	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
NEtFOSA	<0.51		2.0	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
HFPODA	<0.41		2.0	0.41	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
DONA	<0.20		3.1	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
11Cl-PF3OUdS	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluorododecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
4:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
Perfluoroundecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
6:2 Fluorotelomer sulfonic acid	**0.86**	**J**	2.0	0.61	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1
8:2 Fluorotelomer sulfonic acid	**6.2**		3.1	0.61	ng/g	☼	08/03/21 07:22	08/03/21 20:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*23*		*10 - 169*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
M2-8:2 FTS	*30*		*10 - 178*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
M2-6:2 FTS	*28*		*10 - 182*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C5 PFHxA	*23*		*11 - 138*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C4 PFHpA	*26*		*15 - 139*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C8 PFOA	*25*		*21 - 133*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C9 PFNA	*27*		*15 - 145*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C6 PFDA	*28*		*21 - 134*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C7 PFUnA	*28*		*15 - 138*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C2-PFDoDA	*28*		*28 - 126*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C2 PFTeDA	*27*		*10 - 138*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C3 PFBS	*42*		*23 - 130*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C3 PFHxS	*43*		*24 - 136*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C8 PFOS	*42*		*31 - 130*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 172*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
d5-NEtFOSAA	*3*	**5-*	*10 - 176*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C8 FOSA	*114*		*25 - 135*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C4 PFBA	*22*		*12 - 137*	*08/03/21 07:22*	*08/03/21 20:32*	*1*

Client Sample ID: SRJ-49-A-01-02

Lab Sample ID: 410-49501-5

Date Collected: 07/28/21 12:20

Matrix: Solid

Date Received: 07/31/21 09:58

Percent Solids: 91.2

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	*24*		*12 - 135*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
d7-N-MeFOSE-M	*112*		*10 - 152*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
d3-NMePFOSA	*102*		*10 - 148*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
d9-N-EtFOSE-M	*117*		*10 - 157*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
d5-NEtPFOSA	*108*		*10 - 151*	*08/03/21 07:22*	*08/03/21 20:32*	*1*
13C3 HFPO-DA	*32*		*10 - 152*	*08/03/21 07:22*	*08/03/21 20:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.8**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: SRJ-49-D-00-01

Lab Sample ID: 410-49501-13

Date Collected: 07/28/21 13:35

Matrix: Solid

Date Received: 07/31/21 09:58

Percent Solids: 93.4

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.49**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluoroheptanoic acid	**0.53**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorooctanoic acid	**0.76**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorononanoic acid	**0.41**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorodecanoic acid	**4.3**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorotridecanoic acid	**2.3**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorotetradecanoic acid	**1.8**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorobutanesulfonic acid	**0.54**	**J**	2.1	0.41	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorohexanesulfonic acid	**3.3**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorooctanesulfonic acid	**28**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
10:2 FTS	**32**		2.1	0.62	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluoropentanesulfonic acid	**0.64**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluoroheptanesulfonic acid	**0.29**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorononanesulfonic acid	**0.42**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorodecanesulfonic acid	**0.54**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorododecanesulfonic acid (PFDoS)	**0.60**	**J**	2.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorooctanesulfonamide	**0.70**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorohexadecanoic acid	**0.45**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorobutanoic acid	<0.82		2.1	0.82	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluoropentanoic acid	**0.59**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
NMeFOSE	<0.51		2.1	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
NMeFOSA	<0.51		2.1	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
NEtFOSE	<0.51		2.1	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
NEtFOSA	<0.51		2.1	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
HFPODA	<0.41		2.1	0.41	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
DONA	<0.21		3.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluorododecanoic acid	**4.8**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1

Client Sample ID: SRJ-49-D-00-01

Lab Sample ID: 410-49501-13

Date Collected: 07/28/21 13:35
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 93.4

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
Perfluoroundecanoic acid	**5.1**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
6:2 Fluorotelomer sulfonic acid	**7.8**		2.1	0.62	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1
8:2 Fluorotelomer sulfonic acid	**7.0**		3.1	0.62	ng/g	☼	08/03/21 07:22	08/03/21 20:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*126*		*10 - 169*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
M2-8:2 FTS	*133*		*10 - 178*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
M2-6:2 FTS	*138*		*10 - 182*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C5 PFHxA	*85*		*11 - 138*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C4 PFHpA	*96*		*15 - 139*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C8 PFOA	*93*		*21 - 133*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C9 PFNA	*102*		*15 - 145*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C6 PFDA	*104*		*21 - 134*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C7 PFUnA	*101*		*15 - 138*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C2-PFDoDA	*99*		*28 - 126*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C2 PFTeDA	*96*		*10 - 138*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C3 PFBS	*115*		*23 - 130*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C3 PFHxS	*107*		*24 - 136*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C8 PFOS	*100*		*31 - 130*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
d3-NMeFOSAA	*51*		*10 - 172*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
d5-NEtFOSAA	*62*		*10 - 176*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C8 FOSA	*104*		*25 - 135*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C4 PFBA	*84*		*12 - 137*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C5 PFPeA	*95*		*12 - 135*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
d7-N-MeFOSE-M	*91*		*10 - 152*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
d3-NMePFOSA	*77*		*10 - 148*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
d9-N-EtFOSE-M	*101*		*10 - 157*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
d5-NEtPFOSA	*87*		*10 - 151*	*08/03/21 07:22*	*08/03/21 20:44*	*1*
13C3 HFPO-DA	*89*		*10 - 152*	*08/03/21 07:22*	*08/03/21 20:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.6**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: SRJ-49-D-00-01 DUP

Lab Sample ID: 410-49501-14

Date Collected: 07/28/21 13:35
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 95.1

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.53**	**J**	0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluoroheptanoic acid	**0.76**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorooctanoic acid	**0.94**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorononanoic acid	**0.52**	**J**	0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorodecanoic acid	**6.5**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorotridecanoic acid	**1.1**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorotetradecanoic acid	**0.85**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorobutanesulfonic acid	<0.41		2.0	0.41	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorohexanesulfonic acid	**1.4**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorooctanesulfonic acid	**13**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: SRJ-49-D-00-01 DUP
Date Collected: 07/28/21 13:35
Date Received: 07/31/21 09:58

Lab Sample ID: 410-49501-14
Matrix: Solid
Percent Solids: 95.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
10:2 FTS	**27**		2.0	0.61	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluoropentanesulfonic acid	**0.28**	**J**	0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluoroheptanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorononanesulfonic acid	**0.85**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorodecanesulfonic acid	**0.42**	**J**	0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorododecanesulfonic acid (PFDoS)	**0.39**	**J**	2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorooctanesulfonamide	**0.67**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorohexadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorooctadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorobutanoic acid	<0.82		2.0	0.82	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluoropentanoic acid	**0.81**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
NMeFOSE	<0.51		2.0	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
NMeFOSA	<0.51		2.0	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
NEtFOSE	<0.51		2.0	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
NEtFOSA	<0.51		2.0	0.51	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
HFPODA	<0.41		2.0	0.41	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
DONA	<0.20		3.1	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
11Cl-PF3OUdS	<0.20		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluorododecanoic acid	**2.8**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
4:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
Perfluoroundecanoic acid	**6.2**		0.61	0.20	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
6:2 Fluorotelomer sulfonic acid	**3.0**		2.0	0.61	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1
8:2 Fluorotelomer sulfonic acid	**8.5**		3.1	0.61	ng/g	☼	08/03/21 07:22	08/03/21 20:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*87*		*10 - 169*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
M2-8:2 FTS	*101*		*10 - 178*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
M2-6:2 FTS	*104*		*10 - 182*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C5 PFHxA	*63*		*11 - 138*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C4 PFHpA	*70*		*15 - 139*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C8 PFOA	*73*		*21 - 133*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C9 PFNA	*74*		*15 - 145*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C6 PFDA	*81*		*21 - 134*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C7 PFUnA	*81*		*15 - 138*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C2-PFDoDA	*85*		*28 - 126*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C2 PFTeDA	*82*		*10 - 138*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C3 PFBS	*87*		*23 - 130*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C3 PFHxS	*90*		*24 - 136*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C8 PFOS	*84*		*31 - 130*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
d3-NMeFOSAA	*21*		*10 - 172*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
d5-NEtFOSAA	*29*		*10 - 176*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C8 FOSA	*85*		*25 - 135*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C4 PFBA	*60*		*12 - 137*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C5 PFPeA	*69*		*12 - 135*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
d7-N-MeFOSE-M	*81*		*10 - 152*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
d3-NMePFOSA	*64*		*10 - 148*	*08/03/21 07:22*	*08/03/21 20:55*	*1*

Client Sample ID: SRJ-49-D-00-01 DUP

Lab Sample ID: 410-49501-14

Date Collected: 07/28/21 13:35
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 95.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	*84*		*10 - 157*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
d5-NEtPFOSA	*68*		*10 - 151*	*08/03/21 07:22*	*08/03/21 20:55*	*1*
13C3 HFPO-DA	*73*		*10 - 152*	*08/03/21 07:22*	*08/03/21 20:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.9**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: SRJ-49-D-01-02

Lab Sample ID: 410-49501-15

Date Collected: 07/28/21 13:40
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 91.5

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluoroheptanoic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorooctanoic acid	**0.51**	**J**	0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorononanoic acid	**0.85**		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorodecanoic acid	**2.2**		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorotridecanoic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorotetradecanoic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorobutanesulfonic acid	<0.44		2.2	0.44	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorohexanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorooctanesulfonic acid	**120**		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
NEtFOSAA	<0.22		2.2	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
NMeFOSAA	<0.22		2.2	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
10:2 FTS	<0.66		2.2	0.66	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluoropentanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluoroheptanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorononanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorodecanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22		2.2	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorooctanesulfonamide	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorohexadecanoic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorooctadecanoic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorobutanoic acid	<0.87		2.2	0.87	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluoropentanoic acid	**0.29**	**J**	0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
NMeFOSE	<0.55		2.2	0.55	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
NMeFOSA	<0.55		2.2	0.55	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
NEtFOSE	<0.55		2.2	0.55	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
NEtFOSA	<0.55		2.2	0.55	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
HFPODA	<0.44		2.2	0.44	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
DONA	<0.22		3.3	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
9Cl-PF3ONS	<0.22		2.2	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
11Cl-PF3OUdS	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluorododecanoic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
4:2 Fluorotelomer sulfonic acid	<0.66		2.2	0.66	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
Perfluoroundecanoic acid	<0.22		0.66	0.22	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1
6:2 Fluorotelomer sulfonic acid	**1.0**	**J**	2.2	0.66	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1

Client Sample ID: SRJ-49-D-01-02

Lab Sample ID: 410-49501-15

Date Collected: 07/28/21 13:40
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 91.5

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 Fluorotelomer sulfonic acid	1.7	J	3.3	0.66	ng/g	☼	08/03/21 07:22	08/03/21 21:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*54*		*10 - 169*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
M2-8:2 FTS	*72*		*10 - 178*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
M2-6:2 FTS	*61*		*10 - 182*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C5 PFHxA	*55*		*11 - 138*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C4 PFHpA	*60*		*15 - 139*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C8 PFOA	*60*		*21 - 133*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C9 PFNA	*62*		*15 - 145*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C6 PFDA	*64*		*21 - 134*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C7 PFUnA	*67*		*15 - 138*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C2-PFDoDA	*66*		*28 - 126*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C2 PFTeDA	*68*		*10 - 138*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C3 PFBS	*92*		*23 - 130*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C3 PFHxS	*90*		*24 - 136*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C8 PFOS	*88*		*31 - 130*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
d3-NMeFOSAA	*1*	*5-	*10 - 172*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
d5-NEtFOSAA	*2*	*5-	*10 - 176*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C8 FOSA	*110*		*25 - 135*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C4 PFBA	*52*		*12 - 137*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C5 PFPeA	*58*		*12 - 135*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
d7-N-MeFOSE-M	*114*		*10 - 152*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
d3-NMePFOSA	*102*		*10 - 148*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
d9-N-EtFOSE-M	*120*		*10 - 157*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
d5-NEtPFOSA	*105*		*10 - 151*	*08/03/21 07:22*	*08/03/21 21:06*	*1*
13C3 HFPO-DA	*73*		*10 - 152*	*08/03/21 07:22*	*08/03/21 21:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: EB-072821

Lab Sample ID: 410-49501-23

Date Collected: 07/28/21 14:45
Matrix: Water
Date Received: 07/31/21 09:58

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluoroheptanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorooctanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorononanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorodecanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorotridecanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorotetradecanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorobutanesulfonic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorohexanesulfonic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorooctanesulfonic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
NEtFOSAA	<0.44		2.6	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		08/02/21 07:33	08/03/21 09:04	1
10:2 FTS	<0.87		4.4	0.87	ng/L		08/02/21 07:33	08/03/21 09:04	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: EB-072821
Date Collected: 07/28/21 14:45
Date Received: 07/31/21 09:58

Lab Sample ID: 410-49501-23
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluoroheptanesulfonic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorononanesulfonic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorodecanesulfonic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		2.6	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorooctanesulfonamide	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorohexadecanoic acid	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorooctadecanoic acid	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorobutanoic acid	<1.7		4.4	1.7	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluoropentanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
NMeFOSE	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 09:04	1
NMeFOSA	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 09:04	1
NEtFOSE	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 09:04	1
NEtFOSA	<0.87		4.4	0.87	ng/L		08/02/21 07:33	08/03/21 09:04	1
HFPODA	<0.44		2.6	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
DONA	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
9Cl-PF3ONS	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
11Cl-PF3OUdS	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluorododecanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
4:2 Fluorotelomer sulfonic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
Perfluoroundecanoic acid	<0.44		1.7	0.44	ng/L		08/02/21 07:33	08/03/21 09:04	1
6:2 Fluorotelomer sulfonic acid	<1.7		4.4	1.7	ng/L		08/02/21 07:33	08/03/21 09:04	1
8:2 Fluorotelomer sulfonic acid	<0.87		2.6	0.87	ng/L		08/02/21 07:33	08/03/21 09:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*167*		*20 - 187*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
M2-8:2 FTS	*197*	*5+	*34 - 182*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
M2-6:2 FTS	*163*		*29 - 189*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C5 PFHxA	*149*	*5+	*31 - 142*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C4 PFHpA	*157*	*5+	*30 - 144*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C8 PFOA	*144*	*5+	*49 - 127*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C9 PFNA	*154*	*5+	*47 - 136*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C6 PFDA	*166*	*5+	*47 - 128*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C7 PFUnA	*166*	*5+	*40 - 135*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C2-PFDoDA	*159*	*5+	*28 - 136*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C2 PFTeDA	*174*	*5+	*10 - 144*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C3 PFBS	*157*		*19 - 178*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C3 PFHxS	*148*	*5+	*32 - 145*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C8 PFOS	*151*	*5+	*49 - 126*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
d3-NMeFOSAA	*155*	*5+	*32 - 151*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
d5-NEtFOSAA	*180*	*5+	*37 - 164*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C8 FOSA	*159*	*5+	*10 - 143*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C4 PFBA	*158*	*5+	*41 - 132*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C5 PFPeA	*161*	*5+	*33 - 155*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
d7-N-MeFOSE-M	*124*		*10 - 143*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
d3-NMePFOSA	*46*		*10 - 107*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
d9-N-EtFOSE-M	*131*		*10 - 142*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
d5-NEtPFOSA	*47*		*10 - 108*	*08/02/21 07:33*	*08/03/21 09:04*	*1*
13C3 HFPO-DA	*180*	*5+	*20 - 153*	*08/02/21 07:33*	*08/03/21 09:04*	*1*

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: SRJ-49-G-00-01
Date Collected: 07/28/21 14:55
Date Received: 07/31/21 09:58

Lab Sample ID: 410-49501-24
Matrix: Solid
Percent Solids: 93.3

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.25**	**J**	0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluoroheptanoic acid	**0.69**		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorooctanoic acid	**0.47**	**J**	0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorononanoic acid	**0.94**		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorodecanoic acid	**4.0**		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorooctanesulfonic acid	**3.2**		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
10:2 FTS	<0.60		2.0	0.60	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluoropentanoic acid	**0.45**	**J**	0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
HFPODA	<0.40		2.0	0.40	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
DONA	<0.20		3.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluorododecanoic acid	**0.25**	**J**	0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
Perfluoroundecanoic acid	**1.1**		0.60	0.20	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g	☼	08/03/21 07:22	08/03/21 21:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*60*		*10 - 169*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
M2-8:2 FTS	*77*		*10 - 178*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
M2-6:2 FTS	*71*		*10 - 182*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C5 PFHxA	*59*		*11 - 138*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C4 PFHpA	*65*		*15 - 139*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C8 PFOA	*64*		*21 - 133*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C9 PFNA	*62*		*15 - 145*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C6 PFDA	*71*		*21 - 134*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C7 PFUnA	*77*		*15 - 138*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C2-PFDoDA	*77*		*28 - 126*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C2 PFTeDA	*80*		*10 - 138*	*08/03/21 07:22*	*08/03/21 21:29*	*1*

Client Sample ID: SRJ-49-G-00-01

Lab Sample ID: 410-49501-24

Date Collected: 07/28/21 14:55
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 93.3

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 PFBS	*103*		*23 - 130*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C3 PFHxS	*100*		*24 - 136*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C8 PFOS	*95*		*31 - 130*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 172*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
d5-NEtFOSAA	*3*	**5-*	*10 - 176*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C8 FOSA	*123*		*25 - 135*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C4 PFBA	*53*		*12 - 137*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C5 PFPeA	*62*		*12 - 135*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
d7-N-MeFOSE-M	*113*		*10 - 152*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
d3-NMePFOSA	*106*		*10 - 148*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
d9-N-EtFOSE-M	*116*		*10 - 157*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
d5-NEtPFOSA	*102*		*10 - 151*	*08/03/21 07:22*	*08/03/21 21:29*	*1*
13C3 HFPO-DA	*78*		*10 - 152*	*08/03/21 07:22*	*08/03/21 21:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.7**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: SRJ-49-G-01-02

Lab Sample ID: 410-49501-25

Date Collected: 07/28/21 15:00
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 91.1

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluoroheptanoic acid	**0.34**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorooctanoic acid	**0.47**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorononanoic acid	**1.7**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorodecanoic acid	**0.36**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorooctanesulfonic acid	**53**		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluoropentanoic acid	**0.32**	**J**	0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1

Client Sample ID: SRJ-49-G-01-02

Lab Sample ID: 410-49501-25

Date Collected: 07/28/21 15:00
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 91.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
HFPODA	<0.41		2.1	0.41	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
DONA	<0.21		3.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	08/03/21 07:22	08/03/21 21:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*37*		*10 - 169*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
M2-8:2 FTS	*45*		*10 - 178*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
M2-6:2 FTS	*39*		*10 - 182*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C5 PFHxA	*40*		*11 - 138*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C4 PFHpA	*50*		*15 - 139*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C8 PFOA	*45*		*21 - 133*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C9 PFNA	*47*		*15 - 145*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C6 PFDA	*49*		*21 - 134*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C7 PFUnA	*51*		*15 - 138*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C2-PFDoDA	*50*		*28 - 126*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C2 PFTeDA	*50*		*10 - 138*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C3 PFBS	*68*		*23 - 130*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C3 PFHxS	*75*		*24 - 136*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C8 PFOS	*69*		*31 - 130*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
d3-NMeFOSAA	*1*	**5-*	*10 - 172*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
d5-NEtFOSAA	*1*	**5-*	*10 - 176*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C8 FOSA	*103*		*25 - 135*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C4 PFBA	*38*		*12 - 137*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C5 PFPeA	*44*		*12 - 135*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
d7-N-MeFOSE-M	*101*		*10 - 152*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
d3-NMePFOSA	*90*		*10 - 148*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
d9-N-EtFOSE-M	*105*		*10 - 157*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
d5-NEtPFOSA	*94*		*10 - 151*	*08/03/21 07:22*	*08/03/21 21:40*	*1*
13C3 HFPO-DA	*56*		*10 - 152*	*08/03/21 07:22*	*08/03/21 21:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 410-49501-34

Date Collected: 07/28/21 00:00
Matrix: Water
Date Received: 07/31/21 09:58

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluoroheptanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorooctanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: TRIP BLANK
Date Collected: 07/28/21 00:00
Date Received: 07/31/21 09:58

Lab Sample ID: 410-49501-34
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorodecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorotridecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorotetradecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorobutanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorohexanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorooctanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
NEtFOSAA	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		08/05/21 15:45	08/07/21 03:41	1
10:2 FTS	<0.86		4.3	0.86	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluoropentanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluoroheptanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorononanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorodecanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorooctanesulfonamide	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorohexadecanoic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorooctadecanoic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorobutanoic acid	<1.7		4.3	1.7	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluoropentanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
NMeFOSE	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:41	1
NMeFOSA	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:41	1
NEtFOSE	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:41	1
NEtFOSA	<0.86		4.3	0.86	ng/L		08/05/21 15:45	08/07/21 03:41	1
HFPODA	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
DONA	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
9Cl-PF3ONS	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
11Cl-PF3OUdS	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluorododecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
4:2 Fluorotelomer sulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
Perfluoroundecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:41	1
6:2 Fluorotelomer sulfonic acid	<1.7		4.3	1.7	ng/L		08/05/21 15:45	08/07/21 03:41	1
8:2 Fluorotelomer sulfonic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*104*		*20 - 187*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
M2-8:2 FTS	*108*		*34 - 182*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
M2-6:2 FTS	*111*		*29 - 189*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C5 PFHxA	*104*		*31 - 142*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C4 PFHpA	*106*		*30 - 144*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C8 PFOA	*104*		*49 - 127*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C9 PFNA	*105*		*47 - 136*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C6 PFDA	*102*		*47 - 128*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C7 PFUnA	*97*		*40 - 135*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C2-PFDoDA	*97*		*28 - 136*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C2 PFTeDA	*85*		*10 - 144*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C3 PFBS	*105*		*19 - 178*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C3 PFHxS	*102*		*32 - 145*	*08/05/21 15:45*	*08/07/21 03:41*	*1*
13C8 PFOS	*96*		*49 - 126*	*08/05/21 15:45*	*08/07/21 03:41*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 410-49501-34

Date Collected: 07/28/21 00:00

Matrix: Water

Date Received: 07/31/21 09:58

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	96		32 - 151	08/05/21 15:45	08/07/21 03:41	1
d5-NEtFOSAA	96		37 - 164	08/05/21 15:45	08/07/21 03:41	1
13C8 FOSA	91		10 - 143	08/05/21 15:45	08/07/21 03:41	1
13C4 PFBA	99		41 - 132	08/05/21 15:45	08/07/21 03:41	1
13C5 PFPeA	102		33 - 155	08/05/21 15:45	08/07/21 03:41	1
d7-N-MeFOSE-M	95		10 - 143	08/05/21 15:45	08/07/21 03:41	1
d3-NMePFOSA	65		10 - 107	08/05/21 15:45	08/07/21 03:41	1
d9-N-EtFOSE-M	93		10 - 142	08/05/21 15:45	08/07/21 03:41	1
d5-NEtPFOSA	74		10 - 108	08/05/21 15:45	08/07/21 03:41	1
13C3 HFPO-DA	106		20 - 153	08/05/21 15:45	08/07/21 03:41	1

Client Sample ID: FB-072821-2

Lab Sample ID: 410-49501-35

Date Collected: 07/28/21 16:00

Matrix: Water

Date Received: 07/31/21 09:58

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluoroheptanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorooctanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorononanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorodecanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorotridecanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorotetradecanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorobutanesulfonic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorohexanesulfonic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorooctanesulfonic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
NEtFOSAA	<0.46		2.7	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
NMeFOSAA	<0.55		1.8	0.55	ng/L		08/02/21 07:33	08/03/21 09:15	1
10:2 FTS	<0.91		4.6	0.91	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluoropentanesulfonic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluoroheptanesulfonic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorononanesulfonic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorodecanesulfonic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.46		2.7	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorooctanesulfonamide	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorohexadecanoic acid	<0.91		2.7	0.91	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorooctadecanoic acid	<0.91		2.7	0.91	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorobutanoic acid	<1.8		4.6	1.8	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluoropentanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
NMeFOSE	<0.91		2.7	0.91	ng/L		08/02/21 07:33	08/03/21 09:15	1
NMeFOSA	<0.91		2.7	0.91	ng/L		08/02/21 07:33	08/03/21 09:15	1
NEtFOSE	<0.91		2.7	0.91	ng/L		08/02/21 07:33	08/03/21 09:15	1
NEtFOSA	<0.91		4.6	0.91	ng/L		08/02/21 07:33	08/03/21 09:15	1
HFPODA	<0.46		2.7	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
DONA	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
9Cl-PF3ONS	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
11Cl-PF3OUdS	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluorododecanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: FB-072821-2
Date Collected: 07/28/21 16:00
Date Received: 07/31/21 09:58

Lab Sample ID: 410-49501-35
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 Fluorotelomer sulfonic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
Perfluoroundecanoic acid	<0.46		1.8	0.46	ng/L		08/02/21 07:33	08/03/21 09:15	1
6:2 Fluorotelomer sulfonic acid	<1.8		4.6	1.8	ng/L		08/02/21 07:33	08/03/21 09:15	1
8:2 Fluorotelomer sulfonic acid	<0.91		2.7	0.91	ng/L		08/02/21 07:33	08/03/21 09:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*169*		*20 - 187*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
M2-8:2 FTS	*209*	*5+	*34 - 182*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
M2-6:2 FTS	*179*		*29 - 189*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C5 PFHxA	*156*	*5+	*31 - 142*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C4 PFHpA	*166*	*5+	*30 - 144*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C8 PFOA	*158*	*5+	*49 - 127*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C9 PFNA	*163*	*5+	*47 - 136*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C6 PFDA	*176*	*5+	*47 - 128*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C7 PFUnA	*190*	*5+	*40 - 135*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C2-PFDoDA	*185*	*5+	*28 - 136*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C2 PFTeDA	*170*	*5+	*10 - 144*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C3 PFBS	*166*		*19 - 178*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C3 PFHxS	*160*	*5+	*32 - 145*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C8 PFOS	*162*	*5+	*49 - 126*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
d3-NMeFOSAA	*174*	*5+	*32 - 151*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
d5-NEtFOSAA	*193*	*5+	*37 - 164*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C8 FOSA	*156*	*5+	*10 - 143*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C4 PFBA	*159*	*5+	*41 - 132*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C5 PFPeA	*165*	*5+	*33 - 155*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
d7-N-MeFOSE-M	*128*		*10 - 143*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
d3-NMePFOSA	*44*		*10 - 107*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
d9-N-EtFOSE-M	*126*		*10 - 142*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
d5-NEtPFOSA	*46*		*10 - 108*	*08/02/21 07:33*	*08/03/21 09:15*	*1*
13C3 HFPO-DA	*182*	*5+	*20 - 153*	*08/02/21 07:33*	*08/03/21 09:15*	*1*

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA
Lab Sample ID	Client Sample ID	(10-169)	(10-178)	(10-182)	(11-138)	(15-139)	(21-133)	(15-145)	(21-134)
410-49501-1	SRJ-49-R-01-02	60	93	78	61	69	67	70	75
410-49501-2	SRJ-49-R-02-04	50	67	56	54	62	56	57	62
410-49501-2 - RE	SRJ-49-R-02-04								
410-49501-4	SRJ-49-A-00-01	91	100	94	73	86	79	80	90
410-49501-5	SRJ-49-A-01-02	23	30	28	23	26	25	27	28
410-49501-13	SRJ-49-D-00-01	126	133	138	85	96	93	102	104
410-49501-14	SRJ-49-D-00-01 DUP	87	101	104	63	70	73	74	81
410-49501-15	SRJ-49-D-01-02	54	72	61	55	60	60	62	64
410-49501-24	SRJ-49-G-00-01	60	77	71	59	65	64	62	71
410-49501-25	SRJ-49-G-01-02	37	45	39	40	50	45	47	49
LCS 410-155792/2-B	Lab Control Sample	91	83	91	84	88	86	82	92
LCS 410-156843/2-B	Lab Control Sample	105	103	106	101	110	99	91	106
LCSD 410-156843/3-B	Lab Control Sample Dup	107	103	106	100	113	102	94	100
MB 410-155792/1-B	Method Blank	98	101	101	89	95	90	84	96
MB 410-156843/1-B	Method Blank	108	106	112	98	108	102	99	103

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C7PUA	PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(15-138)	(28-126)	(10-138)	(23-130)	(24-136)	(31-130)	(10-172)	(10-176)
410-49501-1	SRJ-49-R-01-02	81	80	78	100	96	93	2 *5-	3 *5-
410-49501-2	SRJ-49-R-02-04	64	62	62	88	94	82	4 *5-	4 *5-
410-49501-2 - RE	SRJ-49-R-02-04			61					
410-49501-4	SRJ-49-A-00-01	90	90	87	102	103	91	10	14
410-49501-5	SRJ-49-A-01-02	28	28	27	42	43	42	2 *5-	3 *5-
410-49501-13	SRJ-49-D-00-01	101	99	96	115	107	100	51	62
410-49501-14	SRJ-49-D-00-01 DUP	81	85	82	87	90	84	21	29
410-49501-15	SRJ-49-D-01-02	67	66	68	92	90	88	1 *5-	2 *5-
410-49501-24	SRJ-49-G-00-01	77	77	80	103	100	95	2 *5-	3 *5-
410-49501-25	SRJ-49-G-01-02	51	50	50	68	75	69	1 *5-	1 *5-
LCS 410-155792/2-B	Lab Control Sample	94	95	88	88	87	82	79	87
LCS 410-156843/2-B	Lab Control Sample	106	103	98	101	111	95	87	86
LCSD 410-156843/3-B	Lab Control Sample Dup	108	104	100	111	112	94	98	100
MB 410-155792/1-B	Method Blank	95	94	92	97	97	89	76	77
MB 410-156843/1-B	Method Blank	115	109	98	102	104	103	85	94

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA	PFBA	PFPeA	NMFM	d3NMFSA	NEFM	d5NPFSA	HFPODA
Lab Sample ID	Client Sample ID	(25-135)	(12-137)	(12-135)	(10-152)	(10-148)	(10-157)	(10-151)	(10-152)
410-49501-1	SRJ-49-R-01-02	122	61	68	139	113	142	122	76
410-49501-2	SRJ-49-R-02-04	111	49	55	123	110	131	114	78
410-49501-2 - RE	SRJ-49-R-02-04								
410-49501-4	SRJ-49-A-00-01	82	66	76	84	73	85	72	85
410-49501-5	SRJ-49-A-01-02	114	22	24	112	102	117	108	32
410-49501-13	SRJ-49-D-00-01	104	84	95	91	77	101	87	89
410-49501-14	SRJ-49-D-00-01 DUP	85	60	69	81	64	84	68	73
410-49501-15	SRJ-49-D-01-02	110	52	58	114	102	120	105	73
410-49501-24	SRJ-49-G-00-01	123	53	62	113	106	116	102	78
410-49501-25	SRJ-49-G-01-02	103	38	44	101	90	105	94	56
LCS 410-155792/2-B	Lab Control Sample	100	84	92	99	93	98	94	102
LCS 410-156843/2-B	Lab Control Sample	99	99	105	101	77	101	75	110
LCSD 410-156843/3-B	Lab Control Sample Dup	97	100	109	90	80	93	79	103

Isotope Dilution Summary

Client: Weston Solutions, Inc. Job ID: 410-49501-1
Project/Site: Nantucket

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-135)	PFBA (12-137)	PFPeA (12-135)	NMFM (10-152)	d3NMFSA (10-148)	NEFM (10-157)	d5NPFSA (10-151)	HFPODA (10-152)
MB 410-155792/1-B	Method Blank	104	91	96	101	94	101	95	101
MB 410-156843/1-B	Method Blank	98	95	110	97	87	99	90	113

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-187)	M282FTS (34-182)	M262FTS (29-189)	13C5PHA (31-142)	C4PFHA (30-144)	C8PFOA (49-127)	C9PFNA (47-136)	C6PFDA (47-128)
410-49501-3	FB-072821	159	170	161	148 *5+	155 *5+	139 *5+	148 *5+	147 *5+
410-49501-23	EB-072821	167	197 *5+	163	149 *5+	157 *5+	144 *5+	154 *5+	166 *5+
410-49501-34	TRIP BLANK	104	108	111	104	106	104	105	102
410-49501-35	FB-072821-2	169	209 *5+	179	156 *5+	166 *5+	158 *5+	163 *5+	176 *5+
LCS 410-155289/2-A	Lab Control Sample	124	148	123	122	134	118	133	134 *5+
LCS 410-157170/2-A	Lab Control Sample	102	84	98	91	94	92	87	84
LCSD 410-155289/3-A	Lab Control Sample Dup	138	144	133	129	137	135 *5+	147 *5+	141 *5+
LCSD 410-157170/3-A	Lab Control Sample Dup	101	95	100	100	100	94	92	92
MB 410-155289/1-A	Method Blank	150	169	148	139	146 *5+	134 *5+	149 *5+	147 *5+
MB 410-157170/1-A	Method Blank	89	85	92	85	91	90	86	86

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (40-135)	PFDoDA (28-136)	PFTDA (10-144)	C3PFBS (19-178)	C3PFHS (32-145)	C8PFOS (49-126)	d3NMFOS (32-151)	d5NEFOS (37-164)
410-49501-3	FB-072821	164 *5+	151 *5+	138	149	144	146 *5+	150	164
410-49501-23	EB-072821	166 *5+	159 *5+	174 *5+	157	148 *5+	151 *5+	155 *5+	180 *5+
410-49501-34	TRIP BLANK	97	97	85	105	102	96	96	96

Isotope Dilution Summary

Client: Weston Solutions, Inc. Job ID: 410-49501-1
Project/Site: Nantucket

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (40-135)	PFDoDA (28-136)	PFTDA (10-144)	C3PFBS (19-178)	C3PFHS (32-145)	C8PFOS (49-126)	d3NMFOS (32-151)	d5NEFOS (37-164)
410-49501-35	FB-072821-2	190 *5+	185 *5+	170 *5+	166	160 *5+	162 *5+	174 *5+	193 *5+
LCS 410-155289/2-A	Lab Control Sample	140 *5+	126	110	127	116	122	131	149
LCS 410-157170/2-A	Lab Control Sample	83	80	77	100	90	80	80	80
LCSD 410-155289/3-A	Lab Control Sample Dup	147 *5+	141 *5+	109	128	125	131 *5+	139	147
LCSD 410-157170/3-A	Lab Control Sample Dup	87	84	77	99	92	83	84	89
MB 410-155289/1-A	Method Blank	158 *5+	142 *5+	121	136	137	136 *5+	146	164
MB 410-157170/1-A	Method Blank	86	85	73	93	87	81	85	88

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-143)	PFBA (41-132)	PFPeA (33-155)	NMFM (10-143)	d3NMFSA (10-107)	NEFM (10-142)	d5NPFSA (10-108)	HFPODA (20-153)
410-49501-3	FB-072821	128	143 *5+	151	98	38	99	40	183 *5+
410-49501-23	EB-072821	159 *5+	158 *5+	161 *5+	124	46	131	47	180 *5+
410-49501-34	TRIP BLANK	91	99	102	95	65	93	74	106
410-49501-35	FB-072821-2	156 *5+	159 *5+	165 *5+	128	44	126	46	182 *5+
LCS 410-155289/2-A	Lab Control Sample	127	125	131	119	56	124	56	166 *5+
LCS 410-157170/2-A	Lab Control Sample	69	90	95	58	15	53	16	87
LCSD 410-155289/3-A	Lab Control Sample Dup	128	136 *5+	135	125	67	122	67	175 *5+
LCSD 410-157170/3-A	Lab Control Sample Dup	86	95	99	87	51	83	52	85
MB 410-155289/1-A	Method Blank	142	141 *5+	144	130	54	122	55	192 *5+
MB 410-157170/1-A	Method Blank	80	83	92	79	48	75	50	79

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-155792/1-B
Matrix: Solid
Analysis Batch: 155938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
10:2 FTS	<0.60		2.0	0.60	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
NMeFOSE	<0.50		2.0	0.50	ng/g		08/03/21 07:22	08/04/21 02:53	1
NMeFOSA	<0.50		2.0	0.50	ng/g		08/03/21 07:22	08/04/21 02:53	1
NEtFOSE	<0.50		2.0	0.50	ng/g		08/03/21 07:22	08/04/21 02:53	1
NEtFOSA	<0.50		2.0	0.50	ng/g		08/03/21 07:22	08/04/21 02:53	1
HFPODA	<0.40		2.0	0.40	ng/g		08/03/21 07:22	08/04/21 02:53	1
DONA	<0.20		3.0	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/03/21 07:22	08/04/21 02:53	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		08/03/21 07:22	08/04/21 02:53	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/03/21 07:22	08/04/21 02:53	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		08/03/21 07:22	08/04/21 02:53	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*98*		*10 - 169*	*08/03/21 07:22*	*08/04/21 02:53*	*1*
M2-8:2 FTS	*101*		*10 - 178*	*08/03/21 07:22*	*08/04/21 02:53*	*1*
M2-6:2 FTS	*101*		*10 - 182*	*08/03/21 07:22*	*08/04/21 02:53*	*1*
13C5 PFHxA	*89*		*11 - 138*	*08/03/21 07:22*	*08/04/21 02:53*	*1*
13C4 PFHpA	*95*		*15 - 139*	*08/03/21 07:22*	*08/04/21 02:53*	*1*
13C8 PFOA	*90*		*21 - 133*	*08/03/21 07:22*	*08/04/21 02:53*	*1*
13C9 PFNA	*84*		*15 - 145*	*08/03/21 07:22*	*08/04/21 02:53*	*1*
13C6 PFDA	*96*		*21 - 134*	*08/03/21 07:22*	*08/04/21 02:53*	*1*
13C7 PFUnA	*95*		*15 - 138*	*08/03/21 07:22*	*08/04/21 02:53*	*1*
13C2-PFDoDA	*94*		*28 - 126*	*08/03/21 07:22*	*08/04/21 02:53*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-155792/1-B
Matrix: Solid
Analysis Batch: 155938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155792

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	92		10 - 138	08/03/21 07:22	08/04/21 02:53	1
13C3 PFBS	97		23 - 130	08/03/21 07:22	08/04/21 02:53	1
13C3 PFHxS	97		24 - 136	08/03/21 07:22	08/04/21 02:53	1
13C8 PFOS	89		31 - 130	08/03/21 07:22	08/04/21 02:53	1
d3-NMeFOSAA	76		10 - 172	08/03/21 07:22	08/04/21 02:53	1
d5-NEtFOSAA	77		10 - 176	08/03/21 07:22	08/04/21 02:53	1
13C8 FOSA	104		25 - 135	08/03/21 07:22	08/04/21 02:53	1
13C4 PFBA	91		12 - 137	08/03/21 07:22	08/04/21 02:53	1
13C5 PFPeA	96		12 - 135	08/03/21 07:22	08/04/21 02:53	1
d7-N-MeFOSE-M	101		10 - 152	08/03/21 07:22	08/04/21 02:53	1
d3-NMePFOSA	94		10 - 148	08/03/21 07:22	08/04/21 02:53	1
d9-N-EtFOSE-M	101		10 - 157	08/03/21 07:22	08/04/21 02:53	1
d5-NEtPFOSA	95		10 - 151	08/03/21 07:22	08/04/21 02:53	1
13C3 HFPO-DA	101		10 - 152	08/03/21 07:22	08/04/21 02:53	1

Lab Sample ID: LCS 410-155792/2-B
Matrix: Solid
Analysis Batch: 155938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.0	22.7		ng/g		91	61 - 147
Perfluoroheptanoic acid	25.0	23.1		ng/g		93	61 - 151
Perfluorooctanoic acid	25.0	22.3		ng/g		89	62 - 144
Perfluorononanoic acid	25.0	24.0		ng/g		96	62 - 148
Perfluorodecanoic acid	25.0	22.4		ng/g		90	62 - 142
Perfluorotridecanoic acid	25.0	23.1		ng/g		92	57 - 152
Perfluorotetradecanoic acid	25.0	26.2		ng/g		105	60 - 147
Perfluorobutanesulfonic acid	22.1	21.0		ng/g		95	62 - 137
Perfluorohexanesulfonic acid	22.8	20.5		ng/g		90	57 - 135
Perfluorooctanesulfonic acid	23.1	20.6		ng/g		89	48 - 134
NEtFOSAA	25.0	22.5		ng/g		90	50 - 140
NMeFOSAA	25.0	23.1		ng/g		92	53 - 149
10:2 FTS	24.1	23.2		ng/g		96	42 - 142
Perfluoropentanesulfonic acid	23.5	23.1		ng/g		99	65 - 145
Perfluoroheptanesulfonic acid	23.8	23.0		ng/g		97	67 - 138
Perfluorononanesulfonic acid	24.0	24.3		ng/g		101	63 - 143
Perfluorodecanesulfonic acid	24.1	23.2		ng/g		96	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	25.3		ng/g		104	52 - 145
Perfluorooctanesulfonamide	25.0	24.1		ng/g		96	52 - 132
Perfluorohexadecanoic acid	25.0	26.5		ng/g		106	44 - 161
Perfluorooctadecanoic acid	25.0	27.8		ng/g		111	16 - 175
Perfluorobutanoic acid	25.0	24.6		ng/g		98	50 - 185
Perfluoropentanoic acid	25.0	24.1		ng/g		96	69 - 144
NMeFOSE	25.0	22.2		ng/g		89	47 - 138
NMeFOSA	25.0	24.0		ng/g		96	43 - 134
NEtFOSE	25.0	22.2		ng/g		89	46 - 134
NEtFOSA	25.0	23.1		ng/g		93	48 - 130
HFPODA	25.0	17.6		ng/g		71	29 - 162

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-155792/2-B
Matrix: Solid
Analysis Batch: 155938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155792

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DONA			23.6	20.7		ng/g		88	48 - 155		
9Cl-PF3ONS			23.3	20.3		ng/g		88	48 - 146		
11Cl-PF3OUdS			23.3	20.4		ng/g		88	45 - 145		
Perfluorododecanoic acid			25.0	22.2		ng/g		89	60 - 147		
4:2 Fluorotelomer sulfonic acid			23.4	21.8		ng/g		94	55 - 132		
Perfluoroundecanoic acid			25.0	23.7		ng/g		95	62 - 144		
6:2 Fluorotelomer sulfonic acid			23.7	23.2		ng/g		98	53 - 137		
8:2 Fluorotelomer sulfonic acid			24.0	22.9		ng/g		96	50 - 147		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*91*		*10 - 169*
M2-8:2 FTS	*83*		*10 - 178*
M2-6:2 FTS	*91*		*10 - 182*
13C5 PFHxA	*84*		*11 - 138*
13C4 PFHpA	*88*		*15 - 139*
13C8 PFOA	*86*		*21 - 133*
13C9 PFNA	*82*		*15 - 145*
13C6 PFDA	*92*		*21 - 134*
13C7 PFUnA	*94*		*15 - 138*
13C2-PFDoDA	*95*		*28 - 126*
13C2 PFTeDA	*88*		*10 - 138*
13C3 PFBS	*88*		*23 - 130*
13C3 PFHxS	*87*		*24 - 136*
13C8 PFOS	*82*		*31 - 130*
d3-NMeFOSAA	*79*		*10 - 172*
d5-NEtFOSAA	*87*		*10 - 176*
13C8 FOSA	*100*		*25 - 135*
13C4 PFBA	*84*		*12 - 137*
13C5 PFPeA	*92*		*12 - 135*
d7-N-MeFOSE-M	*99*		*10 - 152*
d3-NMePFOSA	*93*		*10 - 148*
d9-N-EtFOSE-M	*98*		*10 - 157*
d5-NEtPFOSA	*94*		*10 - 151*
13C3 HFPO-DA	*102*		*10 - 152*

Lab Sample ID: MB 410-156843/1-B
Matrix: Solid
Analysis Batch: 157108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-156843/1-B
Matrix: Solid
Analysis Batch: 157108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
10:2 FTS	<0.60		2.0	0.60	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
NMeFOSE	<0.50		2.0	0.50	ng/g		08/05/21 07:07	08/06/21 06:21	1
NMeFOSA	<0.50		2.0	0.50	ng/g		08/05/21 07:07	08/06/21 06:21	1
NEtFOSE	<0.50		2.0	0.50	ng/g		08/05/21 07:07	08/06/21 06:21	1
NEtFOSA	<0.50		2.0	0.50	ng/g		08/05/21 07:07	08/06/21 06:21	1
HFPODA	<0.40		2.0	0.40	ng/g		08/05/21 07:07	08/06/21 06:21	1
DONA	<0.20		3.0	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/05/21 07:07	08/06/21 06:21	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 07:07	08/06/21 06:21	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/05/21 07:07	08/06/21 06:21	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		08/05/21 07:07	08/06/21 06:21	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*108*		*10 - 169*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
M2-8:2 FTS	*106*		*10 - 178*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
M2-6:2 FTS	*112*		*10 - 182*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C5 PFHxA	*98*		*11 - 138*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C4 PFHpA	*108*		*15 - 139*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C8 PFOA	*102*		*21 - 133*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C9 PFNA	*99*		*15 - 145*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C6 PFDA	*103*		*21 - 134*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C7 PFUnA	*115*		*15 - 138*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C2-PFDoDA	*109*		*28 - 126*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C2 PFTeDA	*98*		*10 - 138*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C3 PFBS	*102*		*23 - 130*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C3 PFHxS	*104*		*24 - 136*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C8 PFOS	*103*		*31 - 130*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
d3-NMeFOSAA	*85*		*10 - 172*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
d5-NEtFOSAA	*94*		*10 - 176*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C8 FOSA	*98*		*25 - 135*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C4 PFBA	*95*		*12 - 137*	*08/05/21 07:07*	*08/06/21 06:21*	*1*
13C5 PFPeA	*110*		*12 - 135*	*08/05/21 07:07*	*08/06/21 06:21*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-156843/1-B
Matrix: Solid
Analysis Batch: 157108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156843

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	97		10 - 152	08/05/21 07:07	08/06/21 06:21	1
d3-NMePFOSA	87		10 - 148	08/05/21 07:07	08/06/21 06:21	1
d9-N-EtFOSE-M	99		10 - 157	08/05/21 07:07	08/06/21 06:21	1
d5-NEtPFOSA	90		10 - 151	08/05/21 07:07	08/06/21 06:21	1
13C3 HFPO-DA	113		10 - 152	08/05/21 07:07	08/06/21 06:21	1

Lab Sample ID: LCS 410-156843/2-B
Matrix: Solid
Analysis Batch: 157108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.0	20.4		ng/g		82	61 - 147
Perfluoroheptanoic acid	25.0	19.2		ng/g		77	61 - 151
Perfluorooctanoic acid	25.0	21.9		ng/g		88	62 - 144
Perfluorononanoic acid	25.0	21.1		ng/g		84	62 - 148
Perfluorodecanoic acid	25.0	20.2		ng/g		81	62 - 142
Perfluorotridecanoic acid	25.0	20.1		ng/g		80	57 - 152
Perfluorotetradecanoic acid	25.0	21.8		ng/g		87	60 - 147
Perfluorobutanesulfonic acid	22.1	17.7		ng/g		80	62 - 137
Perfluorohexanesulfonic acid	22.8	16.8		ng/g		74	57 - 135
Perfluorooctanesulfonic acid	23.1	18.1		ng/g		78	48 - 134
NEtFOSAA	25.0	20.7		ng/g		83	50 - 140
NMeFOSAA	25.0	19.8		ng/g		79	53 - 149
10:2 FTS	24.1	18.5		ng/g		77	42 - 142
Perfluoropentanesulfonic acid	23.5	21.0		ng/g		90	65 - 145
Perfluoroheptanesulfonic acid	23.8	19.6		ng/g		82	67 - 138
Perfluorononanesulfonic acid	24.0	22.1		ng/g		92	63 - 143
Perfluorodecanesulfonic acid	24.1	21.6		ng/g		89	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	21.5		ng/g		89	52 - 145
Perfluorooctanesulfonamide	25.0	20.7		ng/g		83	52 - 132
Perfluorohexadecanoic acid	25.0	22.9		ng/g		92	44 - 161
Perfluorooctadecanoic acid	25.0	23.0		ng/g		92	16 - 175
Perfluorobutanoic acid	25.0	21.4		ng/g		85	50 - 185
Perfluoropentanoic acid	25.0	21.2		ng/g		85	69 - 144
NMeFOSE	25.0	20.7		ng/g		83	47 - 138
NMeFOSA	25.0	22.4		ng/g		90	43 - 134
NEtFOSE	25.0	19.2		ng/g		77	46 - 134
NEtFOSA	25.0	22.2		ng/g		89	48 - 130
HFPODA	25.0	18.7		ng/g		75	29 - 162
DONA	23.6	17.7		ng/g		75	48 - 155
9Cl-PF3ONS	23.3	18.1		ng/g		78	48 - 146
11Cl-PF3OUdS	23.3	18.7		ng/g		80	45 - 145
Perfluorododecanoic acid	25.0	19.8		ng/g		79	60 - 147
4:2 Fluorotelomer sulfonic acid	23.4	18.9		ng/g		81	55 - 132
Perfluoroundecanoic acid	25.0	20.5		ng/g		82	62 - 144
6:2 Fluorotelomer sulfonic acid	23.7	19.6		ng/g		83	53 - 137
8:2 Fluorotelomer sulfonic acid	24.0	18.7		ng/g		78	50 - 147

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	105		10 - 169
M2-8:2 FTS	103		10 - 178
M2-6:2 FTS	106		10 - 182
13C5 PFHxA	101		11 - 138
13C4 PFHpA	110		15 - 139
13C8 PFOA	99		21 - 133
13C9 PFNA	91		15 - 145
13C6 PFDA	106		21 - 134
13C7 PFUnA	106		15 - 138
13C2-PFDoDA	103		28 - 126
13C2 PFTeDA	98		10 - 138
13C3 PFBS	101		23 - 130
13C3 PFHxS	111		24 - 136
13C8 PFOS	95		31 - 130
d3-NMeFOSAA	87		10 - 172
d5-NEtFOSAA	86		10 - 176
13C8 FOSA	99		25 - 135
13C4 PFBA	99		12 - 137
13C5 PFPeA	105		12 - 135
d7-N-MeFOSE-M	101		10 - 152
d3-NMePFOSA	77		10 - 148
d9-N-EtFOSE-M	101		10 - 157
d5-NEtPFOSA	75		10 - 151
13C3 HFPO-DA	110		10 - 152

Lab Sample ID: LCSD 410-156843/3-B
Matrix: Solid
Analysis Batch: 157108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 156843

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.0	20.1		ng/g		81	61 - 147	1	30
Perfluoroheptanoic acid	25.0	18.6		ng/g		74	61 - 151	3	30
Perfluorooctanoic acid	25.0	19.8		ng/g		79	62 - 144	10	30
Perfluorononanoic acid	25.0	21.4		ng/g		86	62 - 148	2	30
Perfluorodecanoic acid	25.0	21.7		ng/g		87	62 - 142	7	30
Perfluorotridecanoic acid	25.0	20.1		ng/g		80	57 - 152	0	30
Perfluorotetradecanoic acid	25.0	22.3		ng/g		89	60 - 147	2	30
Perfluorobutanesulfonic acid	22.1	16.8		ng/g		76	62 - 137	5	30
Perfluorohexanesulfonic acid	22.8	16.9		ng/g		74	57 - 135	0	30
Perfluorooctanesulfonic acid	23.1	19.0		ng/g		82	48 - 134	5	30
NEtFOSAA	25.0	18.6		ng/g		74	50 - 140	11	30
NMeFOSAA	25.0	19.1		ng/g		76	53 - 149	4	30
10:2 FTS	24.1	18.3		ng/g		76	42 - 142	1	30
Perfluoropentanesulfonic acid	23.5	19.1		ng/g		82	65 - 145	9	30
Perfluoroheptanesulfonic acid	23.8	18.9		ng/g		79	67 - 138	4	30
Perfluorononanesulfonic acid	24.0	22.4		ng/g		93	63 - 143	1	30
Perfluorodecanesulfonic acid	24.1	21.9		ng/g		91	60 - 142	1	30
Perfluorododecanesulfonic acid (PFDoS)	24.2	22.9		ng/g		95	52 - 145	6	30
Perfluorooctanesulfonamide	25.0	20.9		ng/g		84	52 - 132	1	30
Perfluorohexadecanoic acid	25.0	22.3		ng/g		89	44 - 161	3	30
Perfluorooctadecanoic acid	25.0	22.4		ng/g		90	16 - 175	3	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-156843/3-B
Matrix: Solid
Analysis Batch: 157108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 156843

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid			25.0	21.2		ng/g		85	50 - 185	1	30
Perfluoropentanoic acid			25.0	20.2		ng/g		81	69 - 144	5	30
NMeFOSE			25.0	19.8		ng/g		79	47 - 138	4	30
NMeFOSA			25.0	20.9		ng/g		84	43 - 134	7	30
NEtFOSE			25.0	19.7		ng/g		79	46 - 134	2	30
NEtFOSA			25.0	20.9		ng/g		84	48 - 130	6	30
HFPODA			25.0	18.4		ng/g		73	29 - 162	2	30
DONA			23.6	15.9		ng/g		67	48 - 155	11	30
9Cl-PF3ONS			23.3	18.4		ng/g		79	48 - 146	1	30
11Cl-PF3OUdS			23.3	19.9		ng/g		86	45 - 145	6	30
Perfluorododecanoic acid			25.0	20.5		ng/g		82	60 - 147	3	30
4:2 Fluorotelomer sulfonic acid			23.4	19.4		ng/g		83	55 - 132	2	30
Perfluoroundecanoic acid			25.0	20.0		ng/g		80	62 - 144	2	30
6:2 Fluorotelomer sulfonic acid			23.7	20.1		ng/g		85	53 - 137	2	30
8:2 Fluorotelomer sulfonic acid			24.0	18.0		ng/g		75	50 - 147	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*107*		*10 - 169*
M2-8:2 FTS	*103*		*10 - 178*
M2-6:2 FTS	*106*		*10 - 182*
13C5 PFHxA	*100*		*11 - 138*
13C4 PFHpA	*113*		*15 - 139*
13C8 PFOA	*102*		*21 - 133*
13C9 PFNA	*94*		*15 - 145*
13C6 PFDA	*100*		*21 - 134*
13C7 PFUnA	*108*		*15 - 138*
13C2-PFDoDA	*104*		*28 - 126*
13C2 PFTeDA	*100*		*10 - 138*
13C3 PFBS	*111*		*23 - 130*
13C3 PFHxS	*112*		*24 - 136*
13C8 PFOS	*94*		*31 - 130*
d3-NMeFOSAA	*98*		*10 - 172*
d5-NEtFOSAA	*100*		*10 - 176*
13C8 FOSA	*97*		*25 - 135*
13C4 PFBA	*100*		*12 - 137*
13C5 PFPeA	*109*		*12 - 135*
d7-N-MeFOSE-M	*90*		*10 - 152*
d3-NMePFOSA	*80*		*10 - 148*
d9-N-EtFOSE-M	*93*		*10 - 157*
d5-NEtPFOSA	*79*		*10 - 151*
13C3 HFPO-DA	*103*		*10 - 152*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-155289/1-A
Matrix: Water
Analysis Batch: 155456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluoroheptanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorooctanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorononanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorodecanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorotridecanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorotetradecanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorobutanesulfonic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorohexanesulfonic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorooctanesulfonic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
NEtFOSAA	<0.50		3.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
NMeFOSAA	<0.60		2.0	0.60	ng/L		08/02/21 07:33	08/03/21 00:35	1
10:2 FTS	<1.0		5.0	1.0	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluoropentanesulfonic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluoroheptanesulfonic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorononanesulfonic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorodecanesulfonic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.50		3.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorooctanesulfonamide	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorohexadecanoic acid	<1.0		3.0	1.0	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorooctadecanoic acid	<1.0		3.0	1.0	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorobutanoic acid	<2.0		5.0	2.0	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluoropentanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
NMeFOSE	<1.0		3.0	1.0	ng/L		08/02/21 07:33	08/03/21 00:35	1
NMeFOSA	<1.0		3.0	1.0	ng/L		08/02/21 07:33	08/03/21 00:35	1
NEtFOSE	<1.0		3.0	1.0	ng/L		08/02/21 07:33	08/03/21 00:35	1
NEtFOSA	<1.0		5.0	1.0	ng/L		08/02/21 07:33	08/03/21 00:35	1
HFPODA	<0.50		3.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
DONA	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
9Cl-PF3ONS	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
11Cl-PF3OUdS	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluorododecanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
4:2 Fluorotelomer sulfonic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
Perfluoroundecanoic acid	<0.50		2.0	0.50	ng/L		08/02/21 07:33	08/03/21 00:35	1
6:2 Fluorotelomer sulfonic acid	<2.0		5.0	2.0	ng/L		08/02/21 07:33	08/03/21 00:35	1
8:2 Fluorotelomer sulfonic acid	<1.0		3.0	1.0	ng/L		08/02/21 07:33	08/03/21 00:35	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*150*		*20 - 187*	*08/02/21 07:33*	*08/03/21 00:35*	*1*
M2-8:2 FTS	*169*		*34 - 182*	*08/02/21 07:33*	*08/03/21 00:35*	*1*
M2-6:2 FTS	*148*		*29 - 189*	*08/02/21 07:33*	*08/03/21 00:35*	*1*
13C5 PFHxA	*139*		*31 - 142*	*08/02/21 07:33*	*08/03/21 00:35*	*1*
13C4 PFHpA	*146*	**5+*	*30 - 144*	*08/02/21 07:33*	*08/03/21 00:35*	*1*
13C8 PFOA	*134*	**5+*	*49 - 127*	*08/02/21 07:33*	*08/03/21 00:35*	*1*
13C9 PFNA	*149*	**5+*	*47 - 136*	*08/02/21 07:33*	*08/03/21 00:35*	*1*
13C6 PFDA	*147*	**5+*	*47 - 128*	*08/02/21 07:33*	*08/03/21 00:35*	*1*
13C7 PFUnA	*158*	**5+*	*40 - 135*	*08/02/21 07:33*	*08/03/21 00:35*	*1*
13C2-PFDoDA	*142*	**5+*	*28 - 136*	*08/02/21 07:33*	*08/03/21 00:35*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-155289/1-A
Matrix: Water
Analysis Batch: 155456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155289

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	121		10 - 144	08/02/21 07:33	08/03/21 00:35	1
13C3 PFBS	136		19 - 178	08/02/21 07:33	08/03/21 00:35	1
13C3 PFHxS	137		32 - 145	08/02/21 07:33	08/03/21 00:35	1
13C8 PFOS	136	*5+	49 - 126	08/02/21 07:33	08/03/21 00:35	1
d3-NMeFOSAA	146		32 - 151	08/02/21 07:33	08/03/21 00:35	1
d5-NEtFOSAA	164		37 - 164	08/02/21 07:33	08/03/21 00:35	1
13C8 FOSA	142		10 - 143	08/02/21 07:33	08/03/21 00:35	1
13C4 PFBA	141	*5+	41 - 132	08/02/21 07:33	08/03/21 00:35	1
13C5 PFPeA	144		33 - 155	08/02/21 07:33	08/03/21 00:35	1
d7-N-MeFOSE-M	130		10 - 143	08/02/21 07:33	08/03/21 00:35	1
d3-NMePFOSA	54		10 - 107	08/02/21 07:33	08/03/21 00:35	1
d9-N-EtFOSE-M	122		10 - 142	08/02/21 07:33	08/03/21 00:35	1
d5-NEtPFOSA	55		10 - 108	08/02/21 07:33	08/03/21 00:35	1
13C3 HFPO-DA	192	*5+	20 - 153	08/02/21 07:33	08/03/21 00:35	1

Lab Sample ID: LCS 410-155289/2-A
Matrix: Water
Analysis Batch: 155456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.6	19.9		ng/L		78	66 - 137
Perfluoroheptanoic acid	25.6	18.9		ng/L		74	66 - 141
Perfluorooctanoic acid	25.6	21.6		ng/L		85	65 - 136
Perfluorononanoic acid	25.6	20.2		ng/L		79	65 - 140
Perfluorodecanoic acid	25.6	21.2		ng/L		83	63 - 137
Perfluorotridecanoic acid	25.6	20.6		ng/L		80	58 - 146
Perfluorotetradecanoic acid	25.6	21.3		ng/L		83	64 - 141
Perfluorobutanesulfonic acid	22.7	17.3		ng/L		77	65 - 132
Perfluorohexanesulfonic acid	23.3	18.0		ng/L		77	60 - 128
Perfluorooctanesulfonic acid	23.7	18.5		ng/L		78	51 - 126
NEtFOSAA	25.6	16.6		ng/L		65	54 - 134
NMeFOSAA	25.6	20.0		ng/L		78	58 - 143
10:2 FTS	24.7	16.5		ng/L		67	44 - 141
Perfluoropentanesulfonic acid	24.0	19.2		ng/L		80	71 - 136
Perfluoroheptanesulfonic acid	24.4	19.1		ng/L		78	67 - 135
Perfluorononanesulfonic acid	24.6	18.7		ng/L		76	67 - 137
Perfluorodecanesulfonic acid	24.7	18.0		ng/L		73	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	24.8	16.6		ng/L		67	54 - 136
Perfluorooctanesulfonamide	25.6	20.7		ng/L		81	55 - 130
Perfluorohexadecanoic acid	25.6	22.0		ng/L		86	52 - 149
Perfluorooctadecanoic acid	25.6	26.6		ng/L		104	32 - 167
Perfluorobutanoic acid	25.6	20.1		ng/L		79	62 - 156
Perfluoropentanoic acid	25.6	19.8		ng/L		77	72 - 139
NMeFOSE	25.6	19.1		ng/L		75	52 - 131
NMeFOSA	25.6	22.4		ng/L		87	49 - 141
NEtFOSE	25.6	19.7		ng/L		77	49 - 128
NEtFOSA	25.6	20.0		ng/L		78	50 - 136
HFPODA	25.6	16.0		ng/L		63	37 - 147

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-155289/2-A
Matrix: Water
Analysis Batch: 155456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155289

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DONA			24.2	17.1		ng/L		71	49 - 158		
9Cl-PF3ONS			23.8	18.3		ng/L		77	52 - 135		
11Cl-PF3OUdS			23.8	17.6		ng/L		74	45 - 134		
Perfluorododecanoic acid			25.6	20.2		ng/L		79	63 - 140		
4:2 Fluorotelomer sulfonic acid			23.9	18.4		ng/L		77	59 - 130		
Perfluoroundecanoic acid			25.6	18.8		ng/L		73	62 - 138		
6:2 Fluorotelomer sulfonic acid			24.3	20.0		ng/L		83	57 - 137		
8:2 Fluorotelomer sulfonic acid			24.5	17.8		ng/L		73	56 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*124*		*20 - 187*
M2-8:2 FTS	*148*		*34 - 182*
M2-6:2 FTS	*123*		*29 - 189*
13C5 PFHxA	*122*		*31 - 142*
13C4 PFHpA	*134*		*30 - 144*
13C8 PFOA	*118*		*49 - 127*
13C9 PFNA	*133*		*47 - 136*
13C6 PFDA	*134*	*5+	*47 - 128*
13C7 PFUnA	*140*	*5+	*40 - 135*
13C2-PFDoDA	*126*		*28 - 136*
13C2 PFTeDA	*110*		*10 - 144*
13C3 PFBS	*127*		*19 - 178*
13C3 PFHxS	*116*		*32 - 145*
13C8 PFOS	*122*		*49 - 126*
d3-NMeFOSAA	*131*		*32 - 151*
d5-NEtFOSAA	*149*		*37 - 164*
13C8 FOSA	*127*		*10 - 143*
13C4 PFBA	*125*		*41 - 132*
13C5 PFPeA	*131*		*33 - 155*
d7-N-MeFOSE-M	*119*		*10 - 143*
d3-NMePFOSA	*56*		*10 - 107*
d9-N-EtFOSE-M	*124*		*10 - 142*
d5-NEtPFOSA	*56*		*10 - 108*
13C3 HFPO-DA	*166*	*5+	*20 - 153*

Lab Sample ID: LCSD 410-155289/3-A
Matrix: Water
Analysis Batch: 155456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 155289

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	19.8		ng/L		77	66 - 137	1	30
Perfluoroheptanoic acid			25.6	18.8		ng/L		73	66 - 141	1	30
Perfluorooctanoic acid			25.6	21.0		ng/L		82	65 - 136	3	30
Perfluorononanoic acid			25.6	20.9		ng/L		82	65 - 140	3	30
Perfluorodecanoic acid			25.6	20.4		ng/L		80	63 - 137	4	30
Perfluorotridecanoic acid			25.6	17.8		ng/L		69	58 - 146	15	30
Perfluorotetradecanoic acid			25.6	21.8		ng/L		85	64 - 141	2	30
Perfluorobutanesulfonic acid			22.7	18.2		ng/L		80	65 - 132	5	30
Perfluorohexanesulfonic acid			23.3	18.3		ng/L		78	60 - 128	2	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-155289/3-A
Matrix: Water
Analysis Batch: 155456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 155289

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid			23.7	18.6		ng/L		78	51 - 126	1	30
NEtFOSAA			25.6	18.3		ng/L		71	54 - 134	10	30
NMeFOSAA			25.6	19.9		ng/L		78	58 - 143	1	30
10:2 FTS			24.7	17.9		ng/L		73	44 - 141	8	30
Perfluoropentanesulfonic acid			24.0	19.6		ng/L		82	71 - 136	2	30
Perfluoroheptanesulfonic acid			24.4	19.5		ng/L		80	67 - 135	2	30
Perfluorononanesulfonic acid			24.6	18.4		ng/L		75	67 - 137	1	30
Perfluorodecanesulfonic acid			24.7	18.7		ng/L		76	61 - 134	4	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	16.7		ng/L		67	54 - 136	0	30
Perfluorooctanesulfonamide			25.6	21.5		ng/L		84	55 - 130	4	30
Perfluorohexadecanoic acid			25.6	20.5		ng/L		80	52 - 149	7	30
Perfluorooctadecanoic acid			25.6	24.3		ng/L		95	32 - 167	9	30
Perfluorobutanoic acid			25.6	20.6		ng/L		81	62 - 156	3	30
Perfluoropentanoic acid			25.6	20.4		ng/L		80	72 - 139	3	30
NMeFOSE			25.6	19.8		ng/L		77	52 - 131	4	30
NMeFOSA			25.6	23.4		ng/L		91	49 - 141	4	30
NEtFOSE			25.6	20.4		ng/L		80	49 - 128	3	30
NEtFOSA			25.6	20.2		ng/L		79	50 - 136	1	30
HFPODA			25.6	15.1		ng/L		59	37 - 147	6	30
DONA			24.2	17.8		ng/L		73	49 - 158	4	30
9Cl-PF3ONS			23.8	19.4		ng/L		82	52 - 135	6	30
11Cl-PF3OUdS			23.8	18.0		ng/L		76	45 - 134	2	30
Perfluorododecanoic acid			25.6	18.5		ng/L		72	63 - 140	9	30
4:2 Fluorotelomer sulfonic acid			23.9	17.1		ng/L		72	59 - 130	7	30
Perfluoroundecanoic acid			25.6	18.2		ng/L		71	62 - 138	3	30
6:2 Fluorotelomer sulfonic acid			24.3	21.3		ng/L		88	57 - 137	6	30
8:2 Fluorotelomer sulfonic acid			24.5	18.7		ng/L		76	56 - 140	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*138*		*20 - 187*
M2-8:2 FTS	*144*		*34 - 182*
M2-6:2 FTS	*133*		*29 - 189*
13C5 PFHxA	*129*		*31 - 142*
13C4 PFHpA	*137*		*30 - 144*
13C8 PFOA	*135*	*5+	*49 - 127*
13C9 PFNA	*147*	*5+	*47 - 136*
13C6 PFDA	*141*	*5+	*47 - 128*
13C7 PFUnA	*147*	*5+	*40 - 135*
13C2-PFDoDA	*141*	*5+	*28 - 136*
13C2 PFTeDA	*109*		*10 - 144*
13C3 PFBS	*128*		*19 - 178*
13C3 PFHxS	*125*		*32 - 145*
13C8 PFOS	*131*	*5+	*49 - 126*
d3-NMeFOSAA	*139*		*32 - 151*
d5-NEtFOSAA	*147*		*37 - 164*
13C8 FOSA	*128*		*10 - 143*
13C4 PFBA	*136*	*5+	*41 - 132*
13C5 PFPeA	*135*		*33 - 155*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-155289/3-A
Matrix: Water
Analysis Batch: 155456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 155289

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d7-N-MeFOSE-M	125		10 - 143
d3-NMePFOSA	67		10 - 107
d9-N-EtFOSE-M	122		10 - 142
d5-NEtPFOSA	67		10 - 108
13C3 HFPO-DA	175	*5+	20 - 153

Lab Sample ID: MB 410-157170/1-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoroheptanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorooctanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorononanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorodecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorotridecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorotetradecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorobutanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorohexanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorooctanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
NEtFOSAA	<0.50		3.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
NMeFOSAA	<0.60		2.0	0.60	ng/L		08/05/21 15:45	08/07/21 03:08	1
10:2 FTS	<1.0		5.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoropentanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoroheptanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorononanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorodecanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.50		3.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorooctanesulfonamide	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorohexadecanoic acid	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorooctadecanoic acid	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorobutanoic acid	<2.0		5.0	2.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoropentanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
NMeFOSE	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
NMeFOSA	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
NEtFOSE	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
NEtFOSA	<1.0		5.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
HFPODA	<0.50		3.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
DONA	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
9Cl-PF3ONS	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
11Cl-PF3OUdS	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorododecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
4:2 Fluorotelomer sulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoroundecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
6:2 Fluorotelomer sulfonic acid	<2.0		5.0	2.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
8:2 Fluorotelomer sulfonic acid	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	89		20 - 187	08/05/21 15:45	08/07/21 03:08	1
M2-8:2 FTS	85		34 - 182	08/05/21 15:45	08/07/21 03:08	1
M2-6:2 FTS	92		29 - 189	08/05/21 15:45	08/07/21 03:08	1
13C5 PFHxA	85		31 - 142	08/05/21 15:45	08/07/21 03:08	1
13C4 PFHpA	91		30 - 144	08/05/21 15:45	08/07/21 03:08	1
13C8 PFOA	90		49 - 127	08/05/21 15:45	08/07/21 03:08	1
13C9 PFNA	86		47 - 136	08/05/21 15:45	08/07/21 03:08	1
13C6 PFDA	86		47 - 128	08/05/21 15:45	08/07/21 03:08	1
13C7 PFUnA	86		40 - 135	08/05/21 15:45	08/07/21 03:08	1
13C2-PFDoDA	85		28 - 136	08/05/21 15:45	08/07/21 03:08	1
13C2 PFTeDA	73		10 - 144	08/05/21 15:45	08/07/21 03:08	1
13C3 PFBS	93		19 - 178	08/05/21 15:45	08/07/21 03:08	1
13C3 PFHxS	87		32 - 145	08/05/21 15:45	08/07/21 03:08	1
13C8 PFOS	81		49 - 126	08/05/21 15:45	08/07/21 03:08	1
d3-NMeFOSAA	85		32 - 151	08/05/21 15:45	08/07/21 03:08	1
d5-NEtFOSAA	88		37 - 164	08/05/21 15:45	08/07/21 03:08	1
13C8 FOSA	80		10 - 143	08/05/21 15:45	08/07/21 03:08	1
13C4 PFBA	83		41 - 132	08/05/21 15:45	08/07/21 03:08	1
13C5 PFPeA	92		33 - 155	08/05/21 15:45	08/07/21 03:08	1
d7-N-MeFOSE-M	79		10 - 143	08/05/21 15:45	08/07/21 03:08	1
d3-NMePFOSA	48		10 - 107	08/05/21 15:45	08/07/21 03:08	1
d9-N-EtFOSE-M	75		10 - 142	08/05/21 15:45	08/07/21 03:08	1
d5-NEtPFOSA	50		10 - 108	08/05/21 15:45	08/07/21 03:08	1
13C3 HFPO-DA	79		20 - 153	08/05/21 15:45	08/07/21 03:08	1

Lab Sample ID: LCS 410-157170/2-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.6	25.7		ng/L		100	66 - 137
Perfluoroheptanoic acid	25.6	28.1		ng/L		110	66 - 141
Perfluorooctanoic acid	25.6	25.9		ng/L		101	65 - 136
Perfluorononanoic acid	25.6	26.8		ng/L		105	65 - 140
Perfluorodecanoic acid	25.6	26.9		ng/L		105	63 - 137
Perfluorotridecanoic acid	25.6	27.5		ng/L		107	58 - 146
Perfluorotetradecanoic acid	25.6	27.9		ng/L		109	64 - 141
Perfluorobutanesulfonic acid	22.7	22.4		ng/L		99	65 - 132
Perfluorohexanesulfonic acid	23.3	23.4		ng/L		100	60 - 128
Perfluorooctanesulfonic acid	23.7	25.2		ng/L		106	51 - 126
NEtFOSAA	25.6	26.5		ng/L		104	54 - 134
NMeFOSAA	25.6	27.3		ng/L		107	58 - 143
10:2 FTS	24.7	26.0		ng/L		105	44 - 141
Perfluoropentanesulfonic acid	24.0	23.5		ng/L		98	71 - 136
Perfluoroheptanesulfonic acid	24.4	21.7		ng/L		89	67 - 135
Perfluorononanesulfonic acid	24.6	23.4		ng/L		95	67 - 137
Perfluorodecanesulfonic acid	24.7	23.5		ng/L		95	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	24.8	22.0		ng/L		89	54 - 136
Perfluorooctanesulfonamide	25.6	26.1		ng/L		102	55 - 130
Perfluorohexadecanoic acid	25.6	29.6		ng/L		116	52 - 149
Perfluorooctadecanoic acid	25.6	29.8		ng/L		116	32 - 167

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-157170/2-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid	25.6	26.2		ng/L		102	62 - 156
Perfluoropentanoic acid	25.6	26.1		ng/L		102	72 - 139
NMeFOSE	25.6	25.0		ng/L		98	52 - 131
NMeFOSA	25.6	26.5		ng/L		103	49 - 141
NEtFOSE	25.6	26.2		ng/L		102	49 - 128
NEtFOSA	25.6	25.2		ng/L		98	50 - 136
HFPODA	25.6	21.4		ng/L		84	37 - 147
DONA	24.2	23.9		ng/L		99	49 - 158
9Cl-PF3ONS	23.8	23.9		ng/L		100	52 - 135
11Cl-PF3OUdS	23.8	22.9		ng/L		96	45 - 134
Perfluorododecanoic acid	25.6	28.9		ng/L		113	63 - 140
4:2 Fluorotelomer sulfonic acid	23.9	23.5		ng/L		98	59 - 130
Perfluoroundecanoic acid	25.6	27.6		ng/L		108	62 - 138
6:2 Fluorotelomer sulfonic acid	24.3	28.2		ng/L		116	57 - 137
8:2 Fluorotelomer sulfonic acid	24.5	27.1		ng/L		111	56 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*102*		*20 - 187*
M2-8:2 FTS	*84*		*34 - 182*
M2-6:2 FTS	*98*		*29 - 189*
13C5 PFHxA	*91*		*31 - 142*
13C4 PFHpA	*94*		*30 - 144*
13C8 PFOA	*92*		*49 - 127*
13C9 PFNA	*87*		*47 - 136*
13C6 PFDA	*84*		*47 - 128*
13C7 PFUnA	*83*		*40 - 135*
13C2-PFDoDA	*80*		*28 - 136*
13C2 PFTeDA	*77*		*10 - 144*
13C3 PFBS	*100*		*19 - 178*
13C3 PFHxS	*90*		*32 - 145*
13C8 PFOS	*80*		*49 - 126*
d3-NMeFOSAA	*80*		*32 - 151*
d5-NEtFOSAA	*80*		*37 - 164*
13C8 FOSA	*69*		*10 - 143*
13C4 PFBA	*90*		*41 - 132*
13C5 PFPeA	*95*		*33 - 155*
d7-N-MeFOSE-M	*58*		*10 - 143*
d3-NMePFOSA	*15*		*10 - 107*
d9-N-EtFOSE-M	*53*		*10 - 142*
d5-NEtPFOSA	*16*		*10 - 108*
13C3 HFPO-DA	*87*		*20 - 153*

Lab Sample ID: LCSD 410-157170/3-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157170

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.6	25.4		ng/L		99	66 - 137	1	30
Perfluoroheptanoic acid	25.6	28.1		ng/L		110	66 - 141	0	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-157170/3-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157170

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid			25.6	26.6		ng/L		104	65 - 136	3	30
Perfluorononanoic acid			25.6	26.7		ng/L		104	65 - 140	1	30
Perfluorodecanoic acid			25.6	26.5		ng/L		103	63 - 137	1	30
Perfluorotridecanoic acid			25.6	26.7		ng/L		104	58 - 146	3	30
Perfluorotetradecanoic acid			25.6	28.7		ng/L		112	64 - 141	3	30
Perfluorobutanesulfonic acid			22.7	23.0		ng/L		102	65 - 132	3	30
Perfluorohexanesulfonic acid			23.3	23.8		ng/L		102	60 - 128	2	30
Perfluorooctanesulfonic acid			23.7	25.5		ng/L		108	51 - 126	1	30
NEtFOSAA			25.6	27.0		ng/L		105	54 - 134	2	30
NMeFOSAA			25.6	28.5		ng/L		111	58 - 143	4	30
10:2 FTS			24.7	24.4		ng/L		99	44 - 141	6	30
Perfluoropentanesulfonic acid			24.0	23.9		ng/L		100	71 - 136	2	30
Perfluoroheptanesulfonic acid			24.4	22.9		ng/L		94	67 - 135	5	30
Perfluorononanesulfonic acid			24.6	24.1		ng/L		98	67 - 137	3	30
Perfluorodecanesulfonic acid			24.7	23.1		ng/L		94	61 - 134	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	21.8		ng/L		88	54 - 136	1	30
Perfluorooctanesulfonamide			25.6	27.6		ng/L		108	55 - 130	6	30
Perfluorohexadecanoic acid			25.6	29.7		ng/L		116	52 - 149	0	30
Perfluorooctadecanoic acid			25.6	30.3		ng/L		118	32 - 167	2	30
Perfluorobutanoic acid			25.6	26.6		ng/L		104	62 - 156	1	30
Perfluoropentanoic acid			25.6	25.8		ng/L		101	72 - 139	1	30
NMeFOSE			25.6	25.2		ng/L		98	52 - 131	1	30
NMeFOSA			25.6	28.6		ng/L		112	49 - 141	8	30
NEtFOSE			25.6	25.9		ng/L		101	49 - 128	1	30
NEtFOSA			25.6	26.4		ng/L		103	50 - 136	5	30
HFPODA			25.6	24.3		ng/L		95	37 - 147	13	30
DONA			24.2	24.9		ng/L		103	49 - 158	4	30
9Cl-PF3ONS			23.8	26.2		ng/L		110	52 - 135	9	30
11Cl-PF3OUdS			23.8	22.6		ng/L		95	45 - 134	1	30
Perfluorododecanoic acid			25.6	28.7		ng/L		112	63 - 140	1	30
4:2 Fluorotelomer sulfonic acid			23.9	25.1		ng/L		105	59 - 130	6	30
Perfluoroundecanoic acid			25.6	27.8		ng/L		109	62 - 138	1	30
6:2 Fluorotelomer sulfonic acid			24.3	26.2		ng/L		108	57 - 137	7	30
8:2 Fluorotelomer sulfonic acid			24.5	25.9		ng/L		105	56 - 140	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*101*		*20 - 187*
M2-8:2 FTS	*95*		*34 - 182*
M2-6:2 FTS	*100*		*29 - 189*
13C5 PFHxA	*100*		*31 - 142*
13C4 PFHpA	*100*		*30 - 144*
13C8 PFOA	*94*		*49 - 127*
13C9 PFNA	*92*		*47 - 136*
13C6 PFDA	*92*		*47 - 128*
13C7 PFUnA	*87*		*40 - 135*
13C2-PFDoDA	*84*		*28 - 136*
13C2 PFTeDA	*77*		*10 - 144*
13C3 PFBS	*99*		*19 - 178*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-157170/3-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157170

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C3 PFHxS	92		32 - 145
13C8 PFOS	83		49 - 126
d3-NMeFOSAA	84		32 - 151
d5-NEtFOSAA	89		37 - 164
13C8 FOSA	86		10 - 143
13C4 PFBA	95		41 - 132
13C5 PFPeA	99		33 - 155
d7-N-MeFOSE-M	87		10 - 143
d3-NMePFOSA	51		10 - 107
d9-N-EtFOSE-M	83		10 - 142
d5-NEtPFOSA	52		10 - 108
13C3 HFPO-DA	85		20 - 153

LCMS

Prep Batch: 155289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-3	FB-072821	Total/NA	Water	EPA 537 (mod)	
410-49501-23	EB-072821	Total/NA	Water	EPA 537 (mod)	
410-49501-35	FB-072821-2	Total/NA	Water	EPA 537 (mod)	
MB 410-155289/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-155289/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-155289/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 155456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-3	FB-072821	Total/NA	Water	EPA 537 (Mod)	155289
410-49501-23	EB-072821	Total/NA	Water	EPA 537 (Mod)	155289
410-49501-35	FB-072821-2	Total/NA	Water	EPA 537 (Mod)	155289
MB 410-155289/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	155289
LCS 410-155289/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	155289
LCSD 410-155289/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	155289

Prep Batch: 155792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-1	SRJ-49-R-01-02	Total/NA	Solid	537 (mod)	
410-49501-2	SRJ-49-R-02-04	Total/NA	Solid	537 (mod)	
410-49501-5	SRJ-49-A-01-02	Total/NA	Solid	537 (mod)	
410-49501-13	SRJ-49-D-00-01	Total/NA	Solid	537 (mod)	
410-49501-14	SRJ-49-D-00-01 DUP	Total/NA	Solid	537 (mod)	
410-49501-15	SRJ-49-D-01-02	Total/NA	Solid	537 (mod)	
410-49501-24	SRJ-49-G-00-01	Total/NA	Solid	537 (mod)	
410-49501-25	SRJ-49-G-01-02	Total/NA	Solid	537 (mod)	
MB 410-155792/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-155792/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Analysis Batch: 155938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-1	SRJ-49-R-01-02	Total/NA	Solid	537 IDA	155986
410-49501-2	SRJ-49-R-02-04	Total/NA	Solid	537 IDA	155986
410-49501-5	SRJ-49-A-01-02	Total/NA	Solid	537 IDA	155986
410-49501-13	SRJ-49-D-00-01	Total/NA	Solid	537 IDA	155986
410-49501-14	SRJ-49-D-00-01 DUP	Total/NA	Solid	537 IDA	155986
410-49501-15	SRJ-49-D-01-02	Total/NA	Solid	537 IDA	155986
410-49501-24	SRJ-49-G-00-01	Total/NA	Solid	537 IDA	155986
410-49501-25	SRJ-49-G-01-02	Total/NA	Solid	537 IDA	155986
MB 410-155792/1-B	Method Blank	Total/NA	Solid	537 IDA	155986
LCS 410-155792/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	155986

Cleanup Batch: 155986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-1	SRJ-49-R-01-02	Total/NA	Solid	Extract Aliquot	155792
410-49501-2	SRJ-49-R-02-04	Total/NA	Solid	Extract Aliquot	155792
410-49501-5	SRJ-49-A-01-02	Total/NA	Solid	Extract Aliquot	155792
410-49501-13	SRJ-49-D-00-01	Total/NA	Solid	Extract Aliquot	155792
410-49501-14	SRJ-49-D-00-01 DUP	Total/NA	Solid	Extract Aliquot	155792
410-49501-15	SRJ-49-D-01-02	Total/NA	Solid	Extract Aliquot	155792
410-49501-24	SRJ-49-G-00-01	Total/NA	Solid	Extract Aliquot	155792

LCMS (Continued)

Cleanup Batch: 155986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-25	SRJ-49-G-01-02	Total/NA	Solid	Extract Aliquot	155792
MB 410-155792/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	155792
LCS 410-155792/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	155792

Prep Batch: 156843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-1 - RE	SRJ-49-R-01-02	Total/NA	Solid	537 (mod)	
410-49501-2 - RE	SRJ-49-R-02-04	Total/NA	Solid	537 (mod)	
410-49501-4	SRJ-49-A-00-01	Total/NA	Solid	537 (mod)	
410-49501-5 - RE	SRJ-49-A-01-02	Total/NA	Solid	537 (mod)	
410-49501-15 - RE	SRJ-49-D-01-02	Total/NA	Solid	537 (mod)	
410-49501-24 - RE	SRJ-49-G-00-01	Total/NA	Solid	537 (mod)	
410-49501-25 - RE	SRJ-49-G-01-02	Total/NA	Solid	537 (mod)	
MB 410-156843/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-156843/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-156843/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 157027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-1 - RE	SRJ-49-R-01-02	Total/NA	Solid	Extract Aliquot	156843
410-49501-2 - RE	SRJ-49-R-02-04	Total/NA	Solid	Extract Aliquot	156843
410-49501-4	SRJ-49-A-00-01	Total/NA	Solid	Extract Aliquot	156843
410-49501-5 - RE	SRJ-49-A-01-02	Total/NA	Solid	Extract Aliquot	156843
410-49501-15 - RE	SRJ-49-D-01-02	Total/NA	Solid	Extract Aliquot	156843
410-49501-24 - RE	SRJ-49-G-00-01	Total/NA	Solid	Extract Aliquot	156843
410-49501-25 - RE	SRJ-49-G-01-02	Total/NA	Solid	Extract Aliquot	156843
MB 410-156843/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	156843
LCS 410-156843/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	156843
LCSD 410-156843/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	156843

Analysis Batch: 157108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-1 - RE	SRJ-49-R-01-02	Total/NA	Solid	537 IDA	157027
410-49501-2 - RE	SRJ-49-R-02-04	Total/NA	Solid	537 IDA	157027
410-49501-4	SRJ-49-A-00-01	Total/NA	Solid	537 IDA	157027
410-49501-5 - RE	SRJ-49-A-01-02	Total/NA	Solid	537 IDA	157027
410-49501-15 - RE	SRJ-49-D-01-02	Total/NA	Solid	537 IDA	157027
410-49501-24 - RE	SRJ-49-G-00-01	Total/NA	Solid	537 IDA	157027
410-49501-25 - RE	SRJ-49-G-01-02	Total/NA	Solid	537 IDA	157027
MB 410-156843/1-B	Method Blank	Total/NA	Solid	537 IDA	157027
LCS 410-156843/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	157027
LCSD 410-156843/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	157027

Prep Batch: 157170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-34	TRIP BLANK	Total/NA	Water	EPA 537 (mod)	
MB 410-157170/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-157170/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-157170/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

LCMS

Analysis Batch: 157605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-34	TRIP BLANK	Total/NA	Water	EPA 537 (Mod)	157170
MB 410-157170/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	157170
LCS 410-157170/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	157170
LCSD 410-157170/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	157170

General Chemistry

Analysis Batch: 155244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49501-1	SRJ-49-R-01-02	Total/NA	Solid	Moisture	
410-49501-2	SRJ-49-R-02-04	Total/NA	Solid	Moisture	
410-49501-4	SRJ-49-A-00-01	Total/NA	Solid	Moisture	
410-49501-5	SRJ-49-A-01-02	Total/NA	Solid	Moisture	
410-49501-13	SRJ-49-D-00-01	Total/NA	Solid	Moisture	
410-49501-14	SRJ-49-D-00-01 DUP	Total/NA	Solid	Moisture	
410-49501-15	SRJ-49-D-01-02	Total/NA	Solid	Moisture	
410-49501-24	SRJ-49-G-00-01	Total/NA	Solid	Moisture	
410-49501-25	SRJ-49-G-01-02	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: SRJ-49-R-01-02 — **Lab Sample ID: 410-49501-1**
Date Collected: 07/28/21 11:55 — **Matrix: Solid**
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: SRJ-49-R-01-02 — **Lab Sample ID: 410-49501-1**
Date Collected: 07/28/21 11:55 — **Matrix: Solid**
Date Received: 07/31/21 09:58 — **Percent Solids: 90.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			155792	08/03/21 07:22	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			155986	08/03/21 12:50	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	155938	08/04/21 05:52	QD9Y	ELLE
Total/NA	Prep	537 (mod)	RE		156843	08/05/21 07:07	S7AC	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		157027	08/05/21 11:05	S7AC	ELLE
Total/NA	Analysis	537 IDA	RE	1	157108	08/06/21 06:54	QD9Y	ELLE

Client Sample ID: SRJ-49-R-02-04 — **Lab Sample ID: 410-49501-2**
Date Collected: 07/28/21 12:00 — **Matrix: Solid**
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: SRJ-49-R-02-04 — **Lab Sample ID: 410-49501-2**
Date Collected: 07/28/21 12:00 — **Matrix: Solid**
Date Received: 07/31/21 09:58 — **Percent Solids: 97.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			155792	08/03/21 07:22	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			155986	08/03/21 12:50	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	155938	08/04/21 06:03	QD9Y	ELLE
Total/NA	Prep	537 (mod)	RE		156843	08/05/21 07:07	S7AC	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		157027	08/05/21 11:05	S7AC	ELLE
Total/NA	Analysis	537 IDA	RE	1	157108	08/06/21 07:06	QD9Y	ELLE

Client Sample ID: FB-072821 — **Lab Sample ID: 410-49501-3**
Date Collected: 07/28/21 11:40 — **Matrix: Water**
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			155289	08/02/21 07:33	RDL8	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	155456	08/03/21 08:53	UUV6	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: SRJ-49-A-00-01
Lab Sample ID: 410-49501-4
Date Collected: 07/28/21 12:15
Matrix: Solid
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: SRJ-49-A-00-01
Lab Sample ID: 410-49501-4
Date Collected: 07/28/21 12:15
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			156843	08/05/21 07:07	S7AC	ELLE
Total/NA	Cleanup	Extract Aliquot			157027	08/05/21 11:05	S7AC	ELLE
Total/NA	Analysis	537 IDA		1	157108	08/06/21 07:17	QD9Y	ELLE

Client Sample ID: SRJ-49-A-01-02
Lab Sample ID: 410-49501-5
Date Collected: 07/28/21 12:20
Matrix: Solid
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: SRJ-49-A-01-02
Lab Sample ID: 410-49501-5
Date Collected: 07/28/21 12:20
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			155792	08/03/21 07:22	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			155986	08/03/21 12:50	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	155938	08/03/21 20:32	QD9Y	ELLE
Total/NA	Prep	537 (mod)	RE		156843	08/05/21 07:07	S7AC	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		157027	08/05/21 11:05	S7AC	ELLE
Total/NA	Analysis	537 IDA	RE	1	157108	08/06/21 07:28	QD9Y	ELLE

Client Sample ID: SRJ-49-D-00-01
Lab Sample ID: 410-49501-13
Date Collected: 07/28/21 13:35
Matrix: Solid
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: SRJ-49-D-00-01
Lab Sample ID: 410-49501-13
Date Collected: 07/28/21 13:35
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			155792	08/03/21 07:22	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			155986	08/03/21 12:50	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	155938	08/03/21 20:44	QD9Y	ELLE

Client Sample ID: SRJ-49-D-00-01 DUP — **Lab Sample ID: 410-49501-14**
Date Collected: 07/28/21 13:35 — **Matrix: Solid**
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: SRJ-49-D-00-01 DUP — **Lab Sample ID: 410-49501-14**
Date Collected: 07/28/21 13:35 — **Matrix: Solid**
Date Received: 07/31/21 09:58 — **Percent Solids: 95.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			155792	08/03/21 07:22	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			155986	08/03/21 12:50	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	155938	08/03/21 20:55	QD9Y	ELLE

Client Sample ID: SRJ-49-D-01-02 — **Lab Sample ID: 410-49501-15**
Date Collected: 07/28/21 13:40 — **Matrix: Solid**
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: SRJ-49-D-01-02 — **Lab Sample ID: 410-49501-15**
Date Collected: 07/28/21 13:40 — **Matrix: Solid**
Date Received: 07/31/21 09:58 — **Percent Solids: 91.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			155792	08/03/21 07:22	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			155986	08/03/21 12:50	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	155938	08/03/21 21:06	QD9Y	ELLE
Total/NA	Prep	537 (mod)	RE		156843	08/05/21 07:07	S7AC	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		157027	08/05/21 11:05	S7AC	ELLE
Total/NA	Analysis	537 IDA	RE	1	157108	08/06/21 08:56	QD9Y	ELLE

Client Sample ID: EB-072821 — **Lab Sample ID: 410-49501-23**
Date Collected: 07/28/21 14:45 — **Matrix: Water**
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			155289	08/02/21 07:33	RDL8	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	155456	08/03/21 09:04	UUV6	ELLE

Client Sample ID: SRJ-49-G-00-01 — **Lab Sample ID: 410-49501-24**
Date Collected: 07/28/21 14:55 — **Matrix: Solid**
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Client Sample ID: SRJ-49-G-00-01

Lab Sample ID: 410-49501-24

Date Collected: 07/28/21 14:55
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			155792	08/03/21 07:22	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			155986	08/03/21 12:50	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	155938	08/03/21 21:29	QD9Y	ELLE
Total/NA	Prep	537 (mod)	RE		156843	08/05/21 07:07	S7AC	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		157027	08/05/21 11:05	S7AC	ELLE
Total/NA	Analysis	537 IDA	RE	1	157108	08/06/21 09:07	QD9Y	ELLE

Client Sample ID: SRJ-49-G-01-02

Lab Sample ID: 410-49501-25

Date Collected: 07/28/21 15:00
Matrix: Solid
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: SRJ-49-G-01-02

Lab Sample ID: 410-49501-25

Date Collected: 07/28/21 15:00
Matrix: Solid
Date Received: 07/31/21 09:58
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			155792	08/03/21 07:22	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			155986	08/03/21 12:50	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	155938	08/03/21 21:40	QD9Y	ELLE
Total/NA	Prep	537 (mod)	RE		156843	08/05/21 07:07	S7AC	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		157027	08/05/21 11:05	S7AC	ELLE
Total/NA	Analysis	537 IDA	RE	1	157108	08/06/21 10:49	QD9Y	ELLE

Client Sample ID: TRIP BLANK

Lab Sample ID: 410-49501-34

Date Collected: 07/28/21 00:00
Matrix: Water
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			157170	08/05/21 15:45	QLP7	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	157605	08/07/21 03:41	UCD3	ELLE

Client Sample ID: FB-072821-2

Lab Sample ID: 410-49501-35

Date Collected: 07/28/21 16:00
Matrix: Water
Date Received: 07/31/21 09:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			155289	08/02/21 07:33	RDL8	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	155456	08/03/21 09:15	UUV6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 IDA	537 (mod)	Solid	10:2 FTS
537 IDA	537 (mod)	Solid	11Cl-PF3OUdS
537 IDA	537 (mod)	Solid	4:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	6:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	8:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	9Cl-PF3ONS
537 IDA	537 (mod)	Solid	DONA
537 IDA	537 (mod)	Solid	HFPODA
537 IDA	537 (mod)	Solid	NEtFOSA
537 IDA	537 (mod)	Solid	NEtFOSAA
537 IDA	537 (mod)	Solid	NEtFOSE
537 IDA	537 (mod)	Solid	NMeFOSA
537 IDA	537 (mod)	Solid	NMeFOSAA
537 IDA	537 (mod)	Solid	NMeFOSE
537 IDA	537 (mod)	Solid	Perfluorobutanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorobutanoic acid
537 IDA	537 (mod)	Solid	Perfluorodecanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorodecanoic acid
537 IDA	537 (mod)	Solid	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	537 (mod)	Solid	Perfluorododecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorohexanoic acid
537 IDA	537 (mod)	Solid	Perfluorononanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorononanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonamide
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorooctanoic acid
537 IDA	537 (mod)	Solid	Perfluoropentanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoropentanoic acid
537 IDA	537 (mod)	Solid	Perfluorotetradecanoic acid
537 IDA	537 (mod)	Solid	Perfluorotridecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroundecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	10:2 FTS
EPA 537 (Mod)	EPA 537 (mod)	Water	11Cl-PF3OUdS
EPA 537 (Mod)	EPA 537 (mod)	Water	4:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	6:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	8:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	9Cl-PF3ONS
EPA 537 (Mod)	EPA 537 (mod)	Water	DONA
EPA 537 (Mod)	EPA 537 (mod)	Water	HFPODA
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSA

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program		Identification Number	Expiration Date
Massachusetts		State		M-PA009	06-30-22
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSAA		
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSE		
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSA		
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSAA		
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSE		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanesulfonic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanesulfonic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorododecanesulfonic acid (PFDoS)		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorododecanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanesulfonic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexadecanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanesulfonic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanesulfonic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctadecanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonamide		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanesulfonic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotetradecanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotridecanoic acid		
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroundecanoic acid		
Moisture		Solid	Percent Moisture		

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

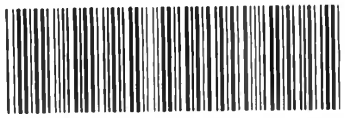
ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49501-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-49501-1	SRJ-49-R-01-02	Solid	07/28/21 11:55	07/31/21 09:58
410-49501-2	SRJ-49-R-02-04	Solid	07/28/21 12:00	07/31/21 09:58
410-49501-3	FB-072821	Water	07/28/21 11:40	07/31/21 09:58
410-49501-4	SRJ-49-A-00-01	Solid	07/28/21 12:15	07/31/21 09:58
410-49501-5	SRJ-49-A-01-02	Solid	07/28/21 12:20	07/31/21 09:58
410-49501-13	SRJ-49-D-00-01	Solid	07/28/21 13:35	07/31/21 09:58
410-49501-14	SRJ-49-D-00-01 DUP	Solid	07/28/21 13:35	07/31/21 09:58
410-49501-15	SRJ-49-D-01-02	Solid	07/28/21 13:40	07/31/21 09:58
410-49501-23	EB-072821	Water	07/28/21 14:45	07/31/21 09:58
410-49501-24	SRJ-49-G-00-01	Solid	07/28/21 14:55	07/31/21 09:58
410-49501-25	SRJ-49-G-01-02	Solid	07/28/21 15:00	07/31/21 09:58
410-49501-34	TRIP BLANK	Water	07/28/21 00:00	07/31/21 09:58
410-49501-35	FB-072821-2	Water	07/28/21 16:00	07/31/21 09:58



410-49501 Chain of Custody

v, LLC

Chain of Custody Record

eurofins Environment Testing America

	Sampler: M. KENNEY / E. TREDEMAN	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-29950-4699.1
Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset com	State of Origin: MA	Page: Page 1 of 4
Company: Weston Solutions, Inc	PWSID:	Analysis Requested		Job #:
Address: 43 North Main Street	Due Date Requested:			Preservation Codes:
City: Concord	TAT Requested (days): See NOTES			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			Other:
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture - Percent Moisture	PFC_IDA - 36 PFAS	Total Number of containers	Special Instructions/Note:
				tion Code:	X	X	N		X	
SRJ-49-R-01-02	7/28/21	1155	G	Solid			X	X		RUSH (48 HR)
SRJ-49-R-02-04		1200		Solid			X	X		RUSH (48 HR)
FB-072821		1140		~~Solid~~ WATER				X		RUSH (48 HR)
SRJ-49-A-00-01		1215		Solid				X		RUSH (48 HR)
SRJ-49-A-01-02		1220		Solid				X		RUSH (48 HR)
SRJ-49-A-03-04		1225		Solid						HOLD
SRJ-49-B-00-01		1235		Solid						HOLD
SRJ-49-B-01-02		1240		Solid						HOLD
SRJ-49-B-03-04		1245		Solid						HOLD
SRJ-49-C-00-01		1310		Solid						HOLD
SRJ-49-C-01-02		1315		Solid						HOLD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FEDEX

Relinquished by:	Date/Time: 7-23-21 13:34	Company	Received by:	Date/Time: 7/26/21 1100	Company: WESTON
Relinquished by:	Date/Time: 7/30/21 1300	Company: WESTON	Received by: SEALED COOLER	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/31/21 9:58	Company: GLF

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.1

Ver: 06/08/2021

8/9/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY/E. TIEDEMANN	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-29950-4699.2
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin:	Page: Page 2 of 4
Company: Weston Solutions, Inc.	PWSID:	Analysis Requested		Job #:
Address: 43 North Main Street	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Concord	TAT Requested (days): See NOTES			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			Other:
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Moisture - Percent Moisture	PFC_IDA - 36 PFAS	Total Number of containers	Special Instructions/Note:
		Preservation Code:				N	N		
SRJ-49-C-03-04	7/28/21	1320	G	Solid					HOLD
SRJ-49-D-00-01		1335		Solid		X	X		RUSH (48 HR)
SRJ-49-D-00-01 DUP		1335		Solid		X	X		RUSH (48 HR)
SRJ-49-D-01-02		1340		Solid		X	X		RUSH (48 HR)
SRJ-49-D-03-04		1345		Solid					HOLD
SRJ-49-E-00-01		1400		Solid					HOLD
SRJ-49-E-01-02		1405		Solid					HOLD
SRJ-49-E-03-04		1410		Solid					HOLD
SRJ-49-F-00-01		1430		Solid					HOLD
SRJ-49-F-01-02		1435		Solid					HOLD
SRJ-49-F-03-04		1440		Solid					HOLD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by	Date	Time	Method of Shipment: FEDEX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	7/30/21 1300	WESTON	SEALED COOLER		
2						
3				[signature]	7/31/21 9:58	EEE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-29950-4699.3
Client Contact: Mr. Matthew Kenney	Phone:	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin:	Page: Page 3 of 4
Company: Weston Solutions, Inc.	PWSID:	Analysis Requested		Job #:
Address: 43 North Main Street	Due Date Requested:			Preservation Codes:
City: Concord	TAT Requested (days): See NOTES			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 0102971			Other:
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Moisture - Percent Moisture	PFC_IDA - 36 PFAS	Special Instructions/Note:
			Preservation Code:		N	N	
EB-072821	7/28/21	1445	G	~~Water~~ Solid		X	HAND AUGER-RUSH (48H
SRJ-49-G-00-01		1455		Solid	X	X	RUSH (48 HR)
SRJ-49-G-01-02		1500		Solid	X	X	RUSH (48HR)
SRJ-49-G-03-04		1505		Solid			HOLD (48 HR)
SRJ-49-H-00-01		1520		Solid			HOLD
SRJ-49-H-01-02		1525		Solid			HOLD
SRJ-49-H-03-04		1530		Solid			HOLD
SRJ-49-H-00-01 DUP		1520		Solid			HOLD
SRJ-49-K-00-01		1540		Solid			HOLD
SRJ-49-K-01-02		1545		Solid			HOLD
SRJ-49-K-03-04		1550		Solid			HOLD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by	Date:	Time:	Method of Shipment: FEDEX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	7/30/21 1300	WESTON	SEALED COOLER		
2						
3				[signature]	7/31/21 9:58	GLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY/E. TEDEMAN	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-29950-4699.4
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2604	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 4 of 4
Company: Weston Solutions, Inc.	PWSID:	Analysis Requested		Job #:
Address: 43 North Main Street	Due Date Requested:			Preservation Codes:
City: Concord	TAT Requested (days): See NOTES			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			Other:
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture - Percent Moisture	PFC_IDA - 36 PFAS	Total Number of containers	Special Instructions/Note:
TRIP BLANK	7/28/21	—	—	~~Water~~ Solid				X		STANDARD TAT
FB-072821-2	7/28/2	1600	G	~~Solid~~ WATER				X		RUSH - ERIC TEDEMAN
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by	Date:	Time:	Method of Shipment: FEDEX

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	7/30/21 1300	WESTON	SEALED COOLER		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	7/31/21 9:58	ELE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-49501-1

Login Number: 49501

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Cottman, Hannah L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-49518-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
8/17/2021 2:31:45 PM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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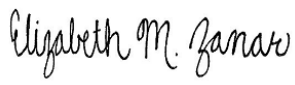

Elizabeth Zanar
Project Manager
8/17/2021 2:31:45 PM

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-49518-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes ☑ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 08/17/2021

Job ID: 410-49518-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-49518-1

Receipt
The samples were received on 7/31/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C

Receipt Exceptions
Sample listed as a solid on coc; however, received sample is a water

PFAS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Client Sample ID: FB-072921 — Lab Sample ID: 410-49518-1

No Detections.

Client Sample ID: FF-1-S-00-01 — Lab Sample ID: 410-49518-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	1.2		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.22	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	0.61	J	2.0	0.61	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.50	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	2.3		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: FF-1-S-02-03 — Lab Sample ID: 410-49518-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.23	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.51	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.83	I	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.37	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.20	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: FF-2-S-00-01 — Lab Sample ID: 410-49518-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	0.35	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.50	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	0.61	J	2.0	0.61	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.81	I	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: FF-2-S-02-03 — Lab Sample ID: 410-49518-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.36	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.36	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.77		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	2.0		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	1.4		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	15		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.41	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: FF-3-S-00-01 — Lab Sample ID: 410-49518-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.31	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.40	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.1		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	1.7		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	11		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	0.23	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.64		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	8.3		2.0	0.60	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.30	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.62		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	1.7		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	0.72	J	2.0	0.60	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	34		3.0	0.60	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Client Sample ID: FF-3-S-02-03 — Lab Sample ID: 410-49518-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.42	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	3.7		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	7.1		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.59	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.81		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	48		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.39	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	1.5	J	2.1	0.63	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: FF-4-S-00-01 — Lab Sample ID: 410-49518-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.21	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.92		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	1.3		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	8.3		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.64		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	5.4		2.0	0.60	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.43	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	1.9		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	48		3.0	0.60	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: FF-4-S-02-03 — Lab Sample ID: 410-49518-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.21	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.53	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	5.7		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	2.3		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.76		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.21	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	0.65	J	2.1	0.62	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	3.3		3.1	0.62	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: EB-072921 — Lab Sample ID: 410-49518-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
10:2 FTS	1.6	J	4.3	0.86	ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	0.90	J	2.6	0.86	ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 410-49518-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Client Sample ID: FB-072921

Date Collected: 07/29/21 08:35
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-1

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluoroheptanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorooctanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorononanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorodecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorotridecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorotetradecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorobutanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorohexanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorooctanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
NEtFOSAA	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		08/05/21 15:45	08/07/21 03:52	1
10:2 FTS	<0.86		4.3	0.86	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluoropentanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluoroheptanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorononanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorodecanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorooctanesulfonamide	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorohexadecanoic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorooctadecanoic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorobutanoic acid	<1.7		4.3	1.7	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluoropentanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
NMeFOSE	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:52	1
NMeFOSA	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:52	1
NEtFOSE	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:52	1
NEtFOSA	<0.86		4.3	0.86	ng/L		08/05/21 15:45	08/07/21 03:52	1
HFPODA	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
DONA	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
9Cl-PF3ONS	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
11Cl-PF3OUdS	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluorododecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
4:2 Fluorotelomer sulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
Perfluoroundecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 03:52	1
6:2 Fluorotelomer sulfonic acid	<1.7		4.3	1.7	ng/L		08/05/21 15:45	08/07/21 03:52	1
8:2 Fluorotelomer sulfonic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 03:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*104*		*20 - 187*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
M2-8:2 FTS	*102*		*34 - 182*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
M2-6:2 FTS	*107*		*29 - 189*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
13C5 PFHxA	*101*		*31 - 142*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
13C4 PFHpA	*106*		*30 - 144*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
13C8 PFOA	*107*		*49 - 127*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
13C9 PFNA	*102*		*47 - 136*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
13C6 PFDA	*105*		*47 - 128*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
13C7 PFUnA	*105*		*40 - 135*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
13C2-PFDoDA	*100*		*28 - 136*	*08/05/21 15:45*	*08/07/21 03:52*	*1*
13C2 PFTeDA	*90*		*10 - 144*	*08/05/21 15:45*	*08/07/21 03:52*	*1*

Client Sample ID: FB-072921

Date Collected: 07/29/21 08:35
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-1
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	108		19 - 178	08/05/21 15:45	08/07/21 03:52	1
13C3 PFHxS	100		32 - 145	08/05/21 15:45	08/07/21 03:52	1
13C8 PFOS	97		49 - 126	08/05/21 15:45	08/07/21 03:52	1
d3-NMeFOSAA	101		32 - 151	08/05/21 15:45	08/07/21 03:52	1
d5-NEtFOSAA	108		37 - 164	08/05/21 15:45	08/07/21 03:52	1
13C8 FOSA	95		10 - 143	08/05/21 15:45	08/07/21 03:52	1
13C4 PFBA	98		41 - 132	08/05/21 15:45	08/07/21 03:52	1
13C5 PFPeA	103		33 - 155	08/05/21 15:45	08/07/21 03:52	1
d7-N-MeFOSE-M	96		10 - 143	08/05/21 15:45	08/07/21 03:52	1
d3-NMePFOSA	71		10 - 107	08/05/21 15:45	08/07/21 03:52	1
d9-N-EtFOSE-M	97		10 - 142	08/05/21 15:45	08/07/21 03:52	1
d5-NEtPFOSA	74		10 - 108	08/05/21 15:45	08/07/21 03:52	1
13C3 HFPO-DA	108		20 - 153	08/05/21 15:45	08/07/21 03:52	1

Client Sample ID: FF-1-S-00-01

Date Collected: 07/29/21 08:55
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-2
Matrix: Solid
Percent Solids: 97.9

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluoroheptanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorooctanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorononanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorodecanoic acid	**1.2**		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorotridecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorotetradecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorobutanesulfonic acid	<0.41		2.0	0.41	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorohexanesulfonic acid	**0.22**	**J**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorooctanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
10:2 FTS	**0.61**	**J**	2.0	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluoropentanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluoroheptanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorononanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorodecanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorooctanesulfonamide	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorohexadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorooctadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorobutanoic acid	<0.82		2.0	0.82	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluoropentanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
NMeFOSE	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
NMeFOSA	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
NEtFOSE	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
NEtFOSA	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
HFPODA	<0.41		2.0	0.41	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
DONA	<0.20		3.1	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1

Client Sample ID: FF-1-S-00-01

Date Collected: 07/29/21 08:55
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-2

Matrix: Solid
Percent Solids: 97.9

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
11Cl-PF3OUdS	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluorododecanoic acid	**0.50**	**J**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
4:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
Perfluoroundecanoic acid	**2.3**		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
6:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1
8:2 Fluorotelomer sulfonic acid	<0.61		3.1	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*105*		*10 - 169*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
M2-8:2 FTS	*114*		*10 - 178*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
M2-6:2 FTS	*118*		*10 - 182*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C5 PFHxA	*107*		*11 - 138*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C4 PFHpA	*112*		*15 - 139*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C8 PFOA	*107*		*21 - 133*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C9 PFNA	*100*		*15 - 145*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C6 PFDA	*122*		*21 - 134*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C7 PFUnA	*126*		*15 - 138*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C2-PFDoDA	*121*		*28 - 126*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C2 PFTeDA	*105*		*10 - 138*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C3 PFBS	*104*		*23 - 130*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C3 PFHxS	*113*		*24 - 136*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C8 PFOS	*110*		*31 - 130*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
d3-NMeFOSAA	*18*		*10 - 172*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
d5-NEtFOSAA	*25*		*10 - 176*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C8 FOSA	*126*		*25 - 135*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C4 PFBA	*95*		*12 - 137*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C5 PFPeA	*104*		*12 - 135*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
d7-N-MeFOSE-M	*116*		*10 - 152*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
d3-NMePFOSA	*106*		*10 - 148*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
d9-N-EtFOSE-M	*120*		*10 - 157*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
d5-NEtPFOSA	*114*		*10 - 151*	*08/05/21 10:13*	*08/07/21 02:35*	*1*
13C3 HFPO-DA	*118*		*10 - 152*	*08/05/21 10:13*	*08/07/21 02:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.1**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: FF-1-S-02-03

Date Collected: 07/29/21 09:00
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-3

Matrix: Solid
Percent Solids: 93.5

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluoroheptanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorooctanoic acid	**0.23**	**J**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorononanoic acid	**0.51**	**J**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorodecanoic acid	**0.83**	**I**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorotridecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorotetradecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1

Client Sample ID: FF-1-S-02-03
Date Collected: 07/29/21 09:00
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-3
Matrix: Solid
Percent Solids: 93.5

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid	<0.41		2.0	0.41	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorohexanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorooctanesulfonic acid	**0.37**	**J**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
10:2 FTS	<0.61		2.0	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluoropentanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluoroheptanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorononanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorodecanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorooctanesulfonamide	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorohexadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorooctadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorobutanoic acid	<0.81		2.0	0.81	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluoropentanoic acid	**0.20**	**J**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
NMeFOSE	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
NMeFOSA	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
NEtFOSE	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
NEtFOSA	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
HFPODA	<0.41		2.0	0.41	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
DONA	<0.20		3.1	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
11Cl-PF3OUdS	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluorododecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
4:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
Perfluoroundecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
6:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1
8:2 Fluorotelomer sulfonic acid	<0.61		3.1	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*101*		*10 - 169*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
M2-8:2 FTS	*110*		*10 - 178*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
M2-6:2 FTS	*107*		*10 - 182*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C5 PFHxA	*96*		*11 - 138*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C4 PFHpA	*105*		*15 - 139*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C8 PFOA	*99*		*21 - 133*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C9 PFNA	*96*		*15 - 145*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C6 PFDA	*113*		*21 - 134*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C7 PFUnA	*113*		*15 - 138*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C2-PFDoDA	*108*		*28 - 126*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C2 PFTeDA	*99*		*10 - 138*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C3 PFBS	*102*		*23 - 130*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C3 PFHxS	*110*		*24 - 136*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C8 PFOS	*103*		*31 - 130*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
d3-NMeFOSAA	*13*		*10 - 172*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
d5-NEtFOSAA	*19*		*10 - 176*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C8 FOSA	*111*		*25 - 135*	*08/05/21 10:13*	*08/07/21 02:46*	*1*
13C4 PFBA	*88*		*12 - 137*	*08/05/21 10:13*	*08/07/21 02:46*	*1*

Client Sample ID: FF-1-S-02-03

Lab Sample ID: 410-49518-3

Date Collected: 07/29/21 09:00
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 93.5

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	96		12 - 135	08/05/21 10:13	08/07/21 02:46	1
d7-N-MeFOSE-M	108		10 - 152	08/05/21 10:13	08/07/21 02:46	1
d3-NMePFOSA	96		10 - 148	08/05/21 10:13	08/07/21 02:46	1
d9-N-EtFOSE-M	106		10 - 157	08/05/21 10:13	08/07/21 02:46	1
d5-NEtPFOSA	95		10 - 151	08/05/21 10:13	08/07/21 02:46	1
13C3 HFPO-DA	102		10 - 152	08/05/21 10:13	08/07/21 02:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: FF-2-S-00-01

Lab Sample ID: 410-49518-4

Date Collected: 07/29/21 09:10
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 95.9

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluoroheptanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorooctanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorononanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorodecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorotridecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorotetradecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorobutanesulfonic acid	<0.41		2.0	0.41	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorohexanesulfonic acid	**0.35**	**J**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorooctanesulfonic acid	**0.50**	**J**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
10:2 FTS	**0.61**	**J**	2.0	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluoropentanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluoroheptanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorononanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorodecanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorooctanesulfonamide	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorohexadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorooctadecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorobutanoic acid	<0.82		2.0	0.82	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluoropentanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
NMeFOSE	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
NMeFOSA	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
NEtFOSE	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
NEtFOSA	<0.51		2.0	0.51	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
HFPODA	<0.41		2.0	0.41	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
DONA	<0.20		3.1	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
11Cl-PF3OUdS	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluorododecanoic acid	<0.20		0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1

Client Sample ID: FF-2-S-00-01

Lab Sample ID: 410-49518-4

Date Collected: 07/29/21 09:10
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 95.9

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
Perfluoroundecanoic acid	**0.81**	**I**	0.61	0.20	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
6:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1
8:2 Fluorotelomer sulfonic acid	<0.61		3.1	0.61	ng/g	☼	08/05/21 10:13	08/07/21 02:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*10 - 169*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
M2-8:2 FTS	*98*		*10 - 178*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
M2-6:2 FTS	*96*		*10 - 182*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C5 PFHxA	*86*		*11 - 138*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C4 PFHpA	*91*		*15 - 139*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C8 PFOA	*89*		*21 - 133*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C9 PFNA	*89*		*15 - 145*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C6 PFDA	*103*		*21 - 134*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C7 PFUnA	*95*		*15 - 138*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C2-PFDoDA	*100*		*28 - 126*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C2 PFTeDA	*90*		*10 - 138*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C3 PFBS	*98*		*23 - 130*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C3 PFHxS	*102*		*24 - 136*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C8 PFOS	*105*		*31 - 130*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
d3-NMeFOSAA	*9*	**5-*	*10 - 172*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
d5-NEtFOSAA	*12*		*10 - 176*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C8 FOSA	*106*		*25 - 135*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C4 PFBA	*77*		*12 - 137*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C5 PFPeA	*85*		*12 - 135*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
d7-N-MeFOSE-M	*105*		*10 - 152*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
d3-NMePFOSA	*96*		*10 - 148*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
d9-N-EtFOSE-M	*102*		*10 - 157*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
d5-NEtPFOSA	*91*		*10 - 151*	*08/05/21 10:13*	*08/07/21 02:56*	*1*
13C3 HFPO-DA	*93*		*10 - 152*	*08/05/21 10:13*	*08/07/21 02:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.1**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: FF-2-S-02-03

Lab Sample ID: 410-49518-5

Date Collected: 07/29/21 09:15
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 93.1

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.36**	**J**	0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluoroheptanoic acid	**0.36**	**J**	0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorooctanoic acid	**0.77**		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorononanoic acid	**2.0**		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorodecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorotridecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorohexanesulfonic acid	**1.4**		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorooctanesulfonic acid	**15**		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1

Client Sample ID: FF-2-S-02-03
Date Collected: 07/29/21 09:15
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-5
Matrix: Solid
Percent Solids: 93.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
10:2 FTS	<0.63		2.1	0.63	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorobutanoic acid	<0.84		2.1	0.84	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluoropentanoic acid	**0.41**	**J**	0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
DONA	<0.21		3.2	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
Perfluoroundecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
6:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1
8:2 Fluorotelomer sulfonic acid	<0.63		3.2	0.63	ng/g	☼	08/05/21 10:13	08/07/21 03:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*70*		*10 - 169*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
M2-8:2 FTS	*84*		*10 - 178*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
M2-6:2 FTS	*83*		*10 - 182*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C5 PFHxA	*62*		*11 - 138*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C4 PFHpA	*67*		*15 - 139*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C8 PFOA	*65*		*21 - 133*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C9 PFNA	*64*		*15 - 145*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C6 PFDA	*76*		*21 - 134*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C7 PFUnA	*76*		*15 - 138*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C2-PFDoDA	*76*		*28 - 126*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C2 PFTeDA	*68*		*10 - 138*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C3 PFBS	*90*		*23 - 130*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C3 PFHxS	*95*		*24 - 136*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C8 PFOS	*91*		*31 - 130*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
d3-NMeFOSAA	*13*		*10 - 172*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
d5-NEtFOSAA	*23*		*10 - 176*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C8 FOSA	*96*		*25 - 135*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C4 PFBA	*54*		*12 - 137*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
13C5 PFPeA	*62*		*12 - 135*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
d7-N-MeFOSE-M	*91*		*10 - 152*	*08/05/21 10:13*	*08/07/21 03:07*	*1*
d3-NMePFOSA	*85*		*10 - 148*	*08/05/21 10:13*	*08/07/21 03:07*	*1*

Client Sample ID: FF-2-S-02-03

Lab Sample ID: 410-49518-5
Date Collected: 07/29/21 09:15
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 93.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	96		10 - 157	08/05/21 10:13	08/07/21 03:07	1
d5-NEtPFOSA	84		10 - 151	08/05/21 10:13	08/07/21 03:07	1
13C3 HFPO-DA	76		10 - 152	08/05/21 10:13	08/07/21 03:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.9**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: FF-3-S-00-01

Lab Sample ID: 410-49518-6
Date Collected: 07/29/21 09:25
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 95.2

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.31**	**J**	0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluoroheptanoic acid	**0.40**	**J**	0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorooctanoic acid	**1.1**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorononanoic acid	**1.7**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorodecanoic acid	**11**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorotridecanoic acid	**0.23**	**J**	0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorooctanesulfonic acid	**0.64**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
10:2 FTS	**8.3**		2.0	0.60	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluoropentanoic acid	**0.30**	**J**	0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
HFPODA	<0.40		2.0	0.40	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
DONA	<0.20		3.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluorododecanoic acid	**0.62**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
Perfluoroundecanoic acid	**1.7**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1
6:2 Fluorotelomer sulfonic acid	**0.72**	**J**	2.0	0.60	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1

Client Sample ID: FF-3-S-00-01

Date Collected: 07/29/21 09:25
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-6

Matrix: Solid
Percent Solids: 95.2

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 Fluorotelomer sulfonic acid	**34**		3.0	0.60	ng/g	☼	08/05/21 10:18	08/10/21 14:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 169*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
M2-8:2 FTS	*120*		*10 - 178*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
M2-6:2 FTS	*117*		*10 - 182*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C5 PFHxA	*102*		*11 - 138*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C4 PFHpA	*111*		*15 - 139*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C8 PFOA	*102*		*21 - 133*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C9 PFNA	*109*		*15 - 145*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C6 PFDA	*115*		*21 - 134*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C7 PFUnA	*118*		*15 - 138*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C2-PFDoDA	*118*		*28 - 126*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C2 PFTeDA	*112*		*10 - 138*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C3 PFBS	*110*		*23 - 130*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C3 PFHxS	*107*		*24 - 136*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C8 PFOS	*109*		*31 - 130*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
d3-NMeFOSAA	*45*		*10 - 172*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
d5-NEtFOSAA	*57*		*10 - 176*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C8 FOSA	*106*		*25 - 135*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C4 PFBA	*98*		*12 - 137*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C5 PFPeA	*107*		*12 - 135*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
d7-N-MeFOSE-M	*102*		*10 - 152*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
d3-NMePFOSA	*99*		*10 - 148*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
d9-N-EtFOSE-M	*108*		*10 - 157*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
d5-NEtPFOSA	*103*		*10 - 151*	*08/05/21 10:18*	*08/10/21 14:39*	*1*
13C3 HFPO-DA	*114*		*10 - 152*	*08/05/21 10:18*	*08/10/21 14:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.8**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: FF-3-S-02-03

Date Collected: 07/29/21 09:30
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-7

Matrix: Solid
Percent Solids: 90.3

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.42**	**J**	0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluoroheptanoic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorooctanoic acid	**3.7**		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorononanoic acid	**7.1**		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorodecanoic acid	**0.59**	**J**	0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorotridecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorohexanesulfonic acid	**0.81**		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorooctanesulfonic acid	**48**		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
10:2 FTS	<0.63		2.1	0.63	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1

Client Sample ID: FF-3-S-02-03
Date Collected: 07/29/21 09:30
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-7
Matrix: Solid
Percent Solids: 90.3

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorobutanoic acid	<0.84		2.1	0.84	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluoropentanoic acid	**0.39**	**J**	0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
DONA	<0.21		3.2	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
Perfluoroundecanoic acid	<0.21		0.63	0.21	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
6:2 Fluorotelomer sulfonic acid	**1.5**	**J**	2.1	0.63	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1
8:2 Fluorotelomer sulfonic acid	<0.63		3.2	0.63	ng/g	☼	08/12/21 04:46	08/14/21 05:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 169*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
M2-8:2 FTS	*92*		*10 - 178*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
M2-6:2 FTS	*80*		*10 - 182*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C5 PFHxA	*87*		*11 - 138*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C4 PFHpA	*94*		*15 - 139*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C8 PFOA	*87*		*21 - 133*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C9 PFNA	*97*		*15 - 145*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C6 PFDA	*97*		*21 - 134*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C7 PFUnA	*99*		*15 - 138*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C2-PFDoDA	*104*		*28 - 126*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C2 PFTeDA	*92*		*10 - 138*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C3 PFBS	*105*		*23 - 130*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C3 PFHxS	*99*		*24 - 136*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C8 PFOS	*106*		*31 - 130*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
d3-NMeFOSAA	*9*	**5-*	*10 - 172*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
d5-NEtFOSAA	*12*		*10 - 176*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C8 FOSA	*125*		*25 - 135*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C4 PFBA	*85*		*12 - 137*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C5 PFPeA	*91*		*12 - 135*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
d7-N-MeFOSE-M	*123*		*10 - 152*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
d3-NMePFOSA	*123*		*10 - 148*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
d9-N-EtFOSE-M	*125*		*10 - 157*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
d5-NEtPFOSA	*124*		*10 - 151*	*08/12/21 04:46*	*08/14/21 05:14*	*1*
13C3 HFPO-DA	*116*		*10 - 152*	*08/12/21 04:46*	*08/14/21 05:14*	*1*

Client Sample ID: FF-3-S-02-03

Lab Sample ID: 410-49518-7
Date Collected: 07/29/21 09:30
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 90.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: FF-4-S-00-01

Lab Sample ID: 410-49518-8
Date Collected: 07/29/21 09:40
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 95.6

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluoroheptanoic acid	**0.21**	**J**	0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorooctanoic acid	**0.92**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorononanoic acid	**1.3**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorodecanoic acid	**8.3**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorooctanesulfonic acid	**0.64**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
10:2 FTS	**5.4**		2.0	0.60	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
HFPODA	<0.40		2.0	0.40	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
DONA	<0.20		3.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluorododecanoic acid	**0.43**	**J**	0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
Perfluoroundecanoic acid	**1.9**		0.60	0.20	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1
8:2 Fluorotelomer sulfonic acid	**48**		3.0	0.60	ng/g	☼	08/05/21 10:18	08/10/21 15:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 169*	*08/05/21 10:18*	*08/10/21 15:01*	*1*
M2-8:2 FTS	*123*		*10 - 178*	*08/05/21 10:18*	*08/10/21 15:01*	*1*
M2-6:2 FTS	*120*		*10 - 182*	*08/05/21 10:18*	*08/10/21 15:01*	*1*
13C5 PFHxA	*106*		*11 - 138*	*08/05/21 10:18*	*08/10/21 15:01*	*1*

Client Sample ID: FF-4-S-00-01

Lab Sample ID: 410-49518-8

Date Collected: 07/29/21 09:40
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 95.6

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	114		15 - 139	08/05/21 10:18	08/10/21 15:01	1
13C8 PFOA	105		21 - 133	08/05/21 10:18	08/10/21 15:01	1
13C9 PFNA	112		15 - 145	08/05/21 10:18	08/10/21 15:01	1
13C6 PFDA	117		21 - 134	08/05/21 10:18	08/10/21 15:01	1
13C7 PFUnA	118		15 - 138	08/05/21 10:18	08/10/21 15:01	1
13C2-PFDoDA	113		28 - 126	08/05/21 10:18	08/10/21 15:01	1
13C2 PFTeDA	103		10 - 138	08/05/21 10:18	08/10/21 15:01	1
13C3 PFBS	117		23 - 130	08/05/21 10:18	08/10/21 15:01	1
13C3 PFHxS	108		24 - 136	08/05/21 10:18	08/10/21 15:01	1
13C8 PFOS	107		31 - 130	08/05/21 10:18	08/10/21 15:01	1
d3-NMeFOSAA	38		10 - 172	08/05/21 10:18	08/10/21 15:01	1
d5-NEtFOSAA	47		10 - 176	08/05/21 10:18	08/10/21 15:01	1
13C8 FOSA	108		25 - 135	08/05/21 10:18	08/10/21 15:01	1
13C4 PFBA	108		12 - 137	08/05/21 10:18	08/10/21 15:01	1
13C5 PFPeA	114		12 - 135	08/05/21 10:18	08/10/21 15:01	1
d7-N-MeFOSE-M	106		10 - 152	08/05/21 10:18	08/10/21 15:01	1
d3-NMePFOSA	91		10 - 148	08/05/21 10:18	08/10/21 15:01	1
d9-N-EtFOSE-M	109		10 - 157	08/05/21 10:18	08/10/21 15:01	1
d5-NEtPFOSA	94		10 - 151	08/05/21 10:18	08/10/21 15:01	1
13C3 HFPO-DA	92		10 - 152	08/05/21 10:18	08/10/21 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.4**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: FF-4-S-02-03

Lab Sample ID: 410-49518-9

Date Collected: 07/29/21 09:45
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 95.4

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluoroheptanoic acid	**0.21**	**J**	0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorooctanoic acid	**0.53**	**J**	0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorononanoic acid	**5.7**		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorodecanoic acid	**2.3**		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorooctanesulfonic acid	**0.76**		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1

Client Sample ID: FF-4-S-02-03
Date Collected: 07/29/21 09:45
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-9
Matrix: Solid
Percent Solids: 95.4

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorobutanoic acid	<0.82		2.1	0.82	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluoropentanoic acid	**0.21**	**J**	0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
NMeFOSE	<0.51		2.1	0.51	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
NMeFOSA	<0.51		2.1	0.51	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
NEtFOSE	<0.51		2.1	0.51	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
NEtFOSA	<0.51		2.1	0.51	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
HFPODA	<0.41		2.1	0.41	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
DONA	<0.21		3.1	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
6:2 Fluorotelomer sulfonic acid	**0.65**	**J**	2.1	0.62	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1
8:2 Fluorotelomer sulfonic acid	**3.3**		3.1	0.62	ng/g	☼	08/05/21 10:18	08/10/21 15:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 169*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
M2-8:2 FTS	*129*		*10 - 178*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
M2-6:2 FTS	*123*		*10 - 182*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C5 PFHxA	*104*		*11 - 138*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C4 PFHpA	*114*		*15 - 139*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C8 PFOA	*107*		*21 - 133*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C9 PFNA	*106*		*15 - 145*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C6 PFDA	*117*		*21 - 134*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C7 PFUnA	*119*		*15 - 138*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C2-PFDoDA	*116*		*28 - 126*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C2 PFTeDA	*109*		*10 - 138*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C3 PFBS	*116*		*23 - 130*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C3 PFHxS	*110*		*24 - 136*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C8 PFOS	*112*		*31 - 130*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
d3-NMeFOSAA	*28*		*10 - 172*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
d5-NEtFOSAA	*29*		*10 - 176*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C8 FOSA	*102*		*25 - 135*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C4 PFBA	*106*		*12 - 137*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C5 PFPeA	*112*		*12 - 135*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
d7-N-MeFOSE-M	*102*		*10 - 152*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
d3-NMePFOSA	*94*		*10 - 148*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
d9-N-EtFOSE-M	*108*		*10 - 157*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
d5-NEtPFOSA	*101*		*10 - 151*	*08/05/21 10:18*	*08/10/21 15:12*	*1*
13C3 HFPO-DA	*104*		*10 - 152*	*08/05/21 10:18*	*08/10/21 15:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.6**		1.0	1.0	%			08/02/21 06:20	1

Client Sample ID: EB-072921
Date Collected: 07/29/21 10:10
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-10
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluoroheptanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorooctanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorononanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorodecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorotridecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorotetradecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorobutanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorohexanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorooctanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
NEtFOSAA	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		08/05/21 15:45	08/07/21 04:03	1
10:2 FTS	**1.6**	**J**	4.3	0.86	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluoropentanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluoroheptanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorononanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorodecanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorooctanesulfonamide	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorohexadecanoic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorooctadecanoic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorobutanoic acid	<1.7		4.3	1.7	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluoropentanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
NMeFOSE	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:03	1
NMeFOSA	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:03	1
NEtFOSE	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:03	1
NEtFOSA	<0.86		4.3	0.86	ng/L		08/05/21 15:45	08/07/21 04:03	1
HFPODA	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
DONA	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
9Cl-PF3ONS	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
11Cl-PF3OUdS	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluorododecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
4:2 Fluorotelomer sulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
Perfluoroundecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:03	1
6:2 Fluorotelomer sulfonic acid	<1.7		4.3	1.7	ng/L		08/05/21 15:45	08/07/21 04:03	1
8:2 Fluorotelomer sulfonic acid	**0.90**	**J**	2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*20 - 187*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
M2-8:2 FTS	*91*		*34 - 182*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
M2-6:2 FTS	*94*		*29 - 189*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
13C5 PFHxA	*90*		*31 - 142*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
13C4 PFHpA	*94*		*30 - 144*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
13C8 PFOA	*93*		*49 - 127*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
13C9 PFNA	*94*		*47 - 136*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
13C6 PFDA	*91*		*47 - 128*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
13C7 PFUnA	*89*		*40 - 135*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
13C2-PFDoDA	*88*		*28 - 136*	*08/05/21 15:45*	*08/07/21 04:03*	*1*
13C2 PFTeDA	*80*		*10 - 144*	*08/05/21 15:45*	*08/07/21 04:03*	*1*

Client Sample ID: EB-072921

Date Collected: 07/29/21 10:10
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-10

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	99		19 - 178	08/05/21 15:45	08/07/21 04:03	1
13C3 PFHxS	91		32 - 145	08/05/21 15:45	08/07/21 04:03	1
13C8 PFOS	87		49 - 126	08/05/21 15:45	08/07/21 04:03	1
d3-NMeFOSAA	90		32 - 151	08/05/21 15:45	08/07/21 04:03	1
d5-NEtFOSAA	92		37 - 164	08/05/21 15:45	08/07/21 04:03	1
13C8 FOSA	89		10 - 143	08/05/21 15:45	08/07/21 04:03	1
13C4 PFBA	92		41 - 132	08/05/21 15:45	08/07/21 04:03	1
13C5 PFPeA	94		33 - 155	08/05/21 15:45	08/07/21 04:03	1
d7-N-MeFOSE-M	89		10 - 143	08/05/21 15:45	08/07/21 04:03	1
d3-NMePFOSA	60		10 - 107	08/05/21 15:45	08/07/21 04:03	1
d9-N-EtFOSE-M	90		10 - 142	08/05/21 15:45	08/07/21 04:03	1
d5-NEtPFOSA	63		10 - 108	08/05/21 15:45	08/07/21 04:03	1
13C3 HFPO-DA	81		20 - 153	08/05/21 15:45	08/07/21 04:03	1

Client Sample ID: TRIP BLANK

Date Collected: 07/29/21 00:00
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-11

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluoroheptanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorooctanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorononanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorodecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorotridecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorotetradecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorobutanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorohexanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorooctanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
NEtFOSAA	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		08/05/21 15:45	08/07/21 04:14	1
10:2 FTS	<0.86		4.3	0.86	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluoropentanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluoroheptanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorononanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorodecanesulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorooctanesulfonamide	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorohexadecanoic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorooctadecanoic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorobutanoic acid	<1.7		4.3	1.7	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluoropentanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
NMeFOSE	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:14	1
NMeFOSA	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:14	1
NEtFOSE	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:14	1
NEtFOSA	<0.86		4.3	0.86	ng/L		08/05/21 15:45	08/07/21 04:14	1
HFPODA	<0.43		2.6	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
DONA	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Client Sample ID: TRIP BLANK
Date Collected: 07/29/21 00:00
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-11
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
11Cl-PF3OUdS	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluorododecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
4:2 Fluorotelomer sulfonic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
Perfluoroundecanoic acid	<0.43		1.7	0.43	ng/L		08/05/21 15:45	08/07/21 04:14	1
6:2 Fluorotelomer sulfonic acid	<1.7		4.3	1.7	ng/L		08/05/21 15:45	08/07/21 04:14	1
8:2 Fluorotelomer sulfonic acid	<0.86		2.6	0.86	ng/L		08/05/21 15:45	08/07/21 04:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*108*		*20 - 187*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
M2-8:2 FTS	*107*		*34 - 182*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
M2-6:2 FTS	*111*		*29 - 189*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C5 PFHxA	*100*		*31 - 142*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C4 PFHpA	*104*		*30 - 144*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C8 PFOA	*105*		*49 - 127*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C9 PFNA	*102*		*47 - 136*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C6 PFDA	*104*		*47 - 128*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C7 PFUnA	*99*		*40 - 135*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C2-PFDoDA	*104*		*28 - 136*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C2 PFTeDA	*88*		*10 - 144*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C3 PFBS	*111*		*19 - 178*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C3 PFHxS	*100*		*32 - 145*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C8 PFOS	*95*		*49 - 126*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
d3-NMeFOSAA	*101*		*32 - 151*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
d5-NEtFOSAA	*102*		*37 - 164*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C8 FOSA	*92*		*10 - 143*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C4 PFBA	*100*		*41 - 132*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C5 PFPeA	*102*		*33 - 155*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
d7-N-MeFOSE-M	*96*		*10 - 143*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
d3-NMePFOSA	*57*		*10 - 107*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
d9-N-EtFOSE-M	*91*		*10 - 142*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
d5-NEtPFOSA	*59*		*10 - 108*	*08/05/21 15:45*	*08/07/21 04:14*	*1*
13C3 HFPO-DA	*93*		*20 - 153*	*08/05/21 15:45*	*08/07/21 04:14*	*1*

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-169)	M282FTS (10-178)	M262FTS (10-182)	13C5PHA (11-138)	C4PFHA (15-139)	C8PFOA (21-133)	C9PFNA (15-145)	C6PFDA (21-134)
410-49518-2	FF-1-S-00-01	105	114	118	107	112	107	100	122
410-49518-3	FF-1-S-02-03	101	110	107	96	105	99	96	113
410-49518-4	FF-2-S-00-01	91	98	96	86	91	89	89	103
410-49518-5	FF-2-S-02-03	70	84	83	62	67	65	64	76
410-49518-6	FF-3-S-00-01	95	120	117	102	111	102	109	115
410-49518-7	FF-3-S-02-03	83	92	80	87	94	87	97	97
410-49518-8	FF-4-S-00-01	93	123	120	106	114	105	112	117
410-49518-9	FF-4-S-02-03	103	129	123	104	114	107	106	117
LCS 410-157017/2-B	Lab Control Sample	105	96	101	101	107	98	99	98
LCS 410-157018/2-B	Lab Control Sample	101	116	112	107	116	109	117	122
LCS 410-159470/2-B	Lab Control Sample	92	100	94	98	102	94	102	104
LCSD 410-157017/3-B	Lab Control Sample Dup	115	109	109	115	122	110	104	119
LCSD 410-157018/3-B	Lab Control Sample Dup	100	113	102	105	117	105	115	121
LCSD 410-159470/3-B	Lab Control Sample Dup	103	109	101	107	113	100	111	114
MB 410-157017/1-B	Method Blank	104	98	108	100	106	98	91	104
MB 410-157018/1-B	Method Blank	115	123	127	110	127	116	120	123
MB 410-159470/1-B	Method Blank	108	116	108	102	119	101	111	113

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (15-138)	PFDoDA (28-126)	PFTDA (10-138)	C3PFBS (23-130)	C3PFHS (24-136)	C8PFOS (31-130)	d3NMFOS (10-172)	d5NEFOS (10-176)
410-49518-2	FF-1-S-00-01	126	121	105	104	113	110	18	25
410-49518-3	FF-1-S-02-03	113	108	99	102	110	103	13	19
410-49518-4	FF-2-S-00-01	95	100	90	98	102	105	9 *5-	12
410-49518-5	FF-2-S-02-03	76	76	68	90	95	91	13	23
410-49518-6	FF-3-S-00-01	118	118	112	110	107	109	45	57
410-49518-7	FF-3-S-02-03	99	104	92	105	99	106	9 *5-	12
410-49518-8	FF-4-S-00-01	118	113	103	117	108	107	38	47
410-49518-9	FF-4-S-02-03	119	116	109	116	110	112	28	29
LCS 410-157017/2-B	Lab Control Sample	102	101	89	98	98	103	84	91
LCS 410-157018/2-B	Lab Control Sample	120	117	107	117	105	109	115	108
LCS 410-159470/2-B	Lab Control Sample	106	112	105	99	97	98	114	121
LCSD 410-157017/3-B	Lab Control Sample Dup	115	118	106	103	109	106	94	103
LCSD 410-157018/3-B	Lab Control Sample Dup	128	121	110	110	108	108	117	123
LCSD 410-159470/3-B	Lab Control Sample Dup	117	123	110	109	106	108	129	131
MB 410-157017/1-B	Method Blank	104	97	89	95	99	93	85	95
MB 410-157018/1-B	Method Blank	128	123	113	115	113	121	114	114
MB 410-159470/1-B	Method Blank	112	120	103	104	110	109	117	117

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-135)	PFBA (12-137)	PFPeA (12-135)	NMFM (10-152)	d3NMFSA (10-148)	NEFM (10-157)	d5NPFSA (10-151)	HFPODA (10-152)
410-49518-2	FF-1-S-00-01	126	95	104	116	106	120	114	118
410-49518-3	FF-1-S-02-03	111	88	96	108	96	106	95	102
410-49518-4	FF-2-S-00-01	106	77	85	105	96	102	91	93
410-49518-5	FF-2-S-02-03	96	54	62	91	85	96	84	76
410-49518-6	FF-3-S-00-01	106	98	107	102	99	108	103	114
410-49518-7	FF-3-S-02-03	125	85	91	123	123	125	124	116
410-49518-8	FF-4-S-00-01	108	108	114	106	91	109	94	92
410-49518-9	FF-4-S-02-03	102	106	112	102	94	108	101	104
LCS 410-157017/2-B	Lab Control Sample	88	98	108	88	75	90	77	106

Isotope Dilution Summary

Client: Weston Solutions, Inc. Job ID: 410-49518-1
Project/Site: Nantucket

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-135)	PFBA (12-137)	PFPeA (12-135)	NMFM (10-152)	d3NMFSA (10-148)	NEFM (10-157)	d5NPFSA (10-151)	HFPODA (10-152)
LCS 410-157018/2-B	Lab Control Sample	102	111	119	107	92	111	96	123
LCS 410-159470/2-B	Lab Control Sample	116	103	106	119	114	114	113	120
LCSD 410-157017/3-B	Lab Control Sample Dup	107	106	114	108	89	106	89	115
LCSD 410-157018/3-B	Lab Control Sample Dup	113	107	122	110	101	114	106	104
LCSD 410-159470/3-B	Lab Control Sample Dup	129	108	114	128	124	127	125	136
MB 410-157017/1-B	Method Blank	90	94	105	85	78	86	79	105
MB 410-157018/1-B	Method Blank	110	113	121	109	93	116	97	104
MB 410-159470/1-B	Method Blank	120	107	115	120	120	116	120	124

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-187)	M282FTS (34-182)	M262FTS (29-189)	13C5PHA (31-142)	C4PFHA (30-144)	C8PFOA (49-127)	C9PFNA (47-136)	C6PFDA (47-128)
410-49518-1	FB-072921	104	102	107	101	106	107	102	105
410-49518-10	EB-072921	91	91	94	90	94	93	94	91
410-49518-11	TRIP BLANK	108	107	111	100	104	105	102	104
LCS 410-157170/2-A	Lab Control Sample	102	84	98	91	94	92	87	84
LCSD 410-157170/3-A	Lab Control Sample Dup	101	95	100	100	100	94	92	92
MB 410-157170/1-A	Method Blank	89	85	92	85	91	90	86	86

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (40-135)	PFDoDA (28-136)	PFTDA (10-144)	C3PFBS (19-178)	C3PFHS (32-145)	C8PFOS (49-126)	d3NMFOS (32-151)	d5NEFOS (37-164)
410-49518-1	FB-072921	105	100	90	108	100	97	101	108

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (40-135)	PFDoDA (28-136)	PFTDA (10-144)	C3PFBS (19-178)	C3PFHS (32-145)	C8PFOS (49-126)	d3NMFOS (32-151)	d5NEFOS (37-164)
410-49518-10	EB-072921	89	88	80	99	91	87	90	92
410-49518-11	TRIP BLANK	99	104	88	111	100	95	101	102
LCS 410-157170/2-A	Lab Control Sample	83	80	77	100	90	80	80	80
LCSD 410-157170/3-A	Lab Control Sample Dup	87	84	77	99	92	83	84	89
MB 410-157170/1-A	Method Blank	86	85	73	93	87	81	85	88

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-143)	PFBA (41-132)	PFPeA (33-155)	NMFM (10-143)	d3NMFSA (10-107)	NEFM (10-142)	d5NPFSA (10-108)	HFPODA (20-153)
410-49518-1	FB-072921	95	98	103	96	71	97	74	108
410-49518-10	EB-072921	89	92	94	89	60	90	63	81
410-49518-11	TRIP BLANK	92	100	102	96	57	91	59	93
LCS 410-157170/2-A	Lab Control Sample	69	90	95	58	15	53	16	87
LCSD 410-157170/3-A	Lab Control Sample Dup	86	95	99	87	51	83	52	85
MB 410-157170/1-A	Method Blank	80	83	92	79	48	75	50	79

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-157017/1-B
Matrix: Solid
Analysis Batch: 157416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
10:2 FTS	<0.60		2.0	0.60	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
NMeFOSE	<0.50		2.0	0.50	ng/g		08/05/21 10:13	08/06/21 23:04	1
NMeFOSA	<0.50		2.0	0.50	ng/g		08/05/21 10:13	08/06/21 23:04	1
NEtFOSE	<0.50		2.0	0.50	ng/g		08/05/21 10:13	08/06/21 23:04	1
NEtFOSA	<0.50		2.0	0.50	ng/g		08/05/21 10:13	08/06/21 23:04	1
HFPODA	<0.40		2.0	0.40	ng/g		08/05/21 10:13	08/06/21 23:04	1
DONA	<0.20		3.0	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/05/21 10:13	08/06/21 23:04	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:13	08/06/21 23:04	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/05/21 10:13	08/06/21 23:04	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		08/05/21 10:13	08/06/21 23:04	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*104*		*10 - 169*	*08/05/21 10:13*	*08/06/21 23:04*	*1*
M2-8:2 FTS	*98*		*10 - 178*	*08/05/21 10:13*	*08/06/21 23:04*	*1*
M2-6:2 FTS	*108*		*10 - 182*	*08/05/21 10:13*	*08/06/21 23:04*	*1*
13C5 PFHxA	*100*		*11 - 138*	*08/05/21 10:13*	*08/06/21 23:04*	*1*
13C4 PFHpA	*106*		*15 - 139*	*08/05/21 10:13*	*08/06/21 23:04*	*1*
13C8 PFOA	*98*		*21 - 133*	*08/05/21 10:13*	*08/06/21 23:04*	*1*
13C9 PFNA	*91*		*15 - 145*	*08/05/21 10:13*	*08/06/21 23:04*	*1*
13C6 PFDA	*104*		*21 - 134*	*08/05/21 10:13*	*08/06/21 23:04*	*1*
13C7 PFUnA	*104*		*15 - 138*	*08/05/21 10:13*	*08/06/21 23:04*	*1*
13C2-PFDoDA	*97*		*28 - 126*	*08/05/21 10:13*	*08/06/21 23:04*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-157017/1-B
Matrix: Solid
Analysis Batch: 157416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157017

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	89		10 - 138	08/05/21 10:13	08/06/21 23:04	1
13C3 PFBS	95		23 - 130	08/05/21 10:13	08/06/21 23:04	1
13C3 PFHxS	99		24 - 136	08/05/21 10:13	08/06/21 23:04	1
13C8 PFOS	93		31 - 130	08/05/21 10:13	08/06/21 23:04	1
d3-NMeFOSAA	85		10 - 172	08/05/21 10:13	08/06/21 23:04	1
d5-NEtFOSAA	95		10 - 176	08/05/21 10:13	08/06/21 23:04	1
13C8 FOSA	90		25 - 135	08/05/21 10:13	08/06/21 23:04	1
13C4 PFBA	94		12 - 137	08/05/21 10:13	08/06/21 23:04	1
13C5 PFPeA	105		12 - 135	08/05/21 10:13	08/06/21 23:04	1
d7-N-MeFOSE-M	85		10 - 152	08/05/21 10:13	08/06/21 23:04	1
d3-NMePFOSA	78		10 - 148	08/05/21 10:13	08/06/21 23:04	1
d9-N-EtFOSE-M	86		10 - 157	08/05/21 10:13	08/06/21 23:04	1
d5-NEtPFOSA	79		10 - 151	08/05/21 10:13	08/06/21 23:04	1
13C3 HFPO-DA	105		10 - 152	08/05/21 10:13	08/06/21 23:04	1

Lab Sample ID: LCS 410-157017/2-B
Matrix: Solid
Analysis Batch: 157416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.0	20.0		ng/g		80	61 - 147
Perfluoroheptanoic acid	25.0	19.5		ng/g		78	61 - 151
Perfluorooctanoic acid	25.0	19.0		ng/g		76	62 - 144
Perfluorononanoic acid	25.0	21.2		ng/g		85	62 - 148
Perfluorodecanoic acid	25.0	18.4		ng/g		73	62 - 142
Perfluorotridecanoic acid	25.0	17.2		ng/g		69	57 - 152
Perfluorotetradecanoic acid	25.0	19.8		ng/g		79	60 - 147
Perfluorobutanesulfonic acid	22.1	17.8		ng/g		81	62 - 137
Perfluorohexanesulfonic acid	22.8	16.4		ng/g		72	57 - 135
Perfluorooctanesulfonic acid	23.1	17.9		ng/g		77	48 - 134
NEtFOSAA	25.0	18.1		ng/g		73	50 - 140
NMeFOSAA	25.0	18.6		ng/g		75	53 - 149
10:2 FTS	24.1	17.7		ng/g		73	42 - 142
Perfluoropentanesulfonic acid	23.5	21.2		ng/g		90	65 - 145
Perfluoroheptanesulfonic acid	23.8	19.6		ng/g		82	67 - 138
Perfluorononanesulfonic acid	24.0	20.3		ng/g		85	63 - 143
Perfluorodecanesulfonic acid	24.1	19.7		ng/g		82	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	20.5		ng/g		85	52 - 145
Perfluorooctanesulfonamide	25.0	20.2		ng/g		81	52 - 132
Perfluorohexadecanoic acid	25.0	20.3		ng/g		81	44 - 161
Perfluorooctadecanoic acid	25.0	21.0		ng/g		84	16 - 175
Perfluorobutanoic acid	25.0	21.3		ng/g		85	50 - 185
Perfluoropentanoic acid	25.0	20.4		ng/g		82	69 - 144
NMeFOSE	25.0	20.0		ng/g		80	47 - 138
NMeFOSA	25.0	22.0		ng/g		88	43 - 134
NEtFOSE	25.0	17.6		ng/g		70	46 - 134
NEtFOSA	25.0	19.1		ng/g		76	48 - 130
HFPODA	25.0	16.0		ng/g		64	29 - 162

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-157017/2-B
Matrix: Solid
Analysis Batch: 157416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DONA	23.6	18.4		ng/g		78	48 - 155
9Cl-PF3ONS	23.3	17.9		ng/g		77	48 - 146
11Cl-PF3OUdS	23.3	18.3		ng/g		79	45 - 145
Perfluorododecanoic acid	25.0	17.1		ng/g		69	60 - 147
4:2 Fluorotelomer sulfonic acid	23.4	18.6		ng/g		79	55 - 132
Perfluoroundecanoic acid	25.0	18.2		ng/g		73	62 - 144
6:2 Fluorotelomer sulfonic acid	23.7	19.0		ng/g		80	53 - 137
8:2 Fluorotelomer sulfonic acid	24.0	18.9		ng/g		79	50 - 147

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*105*		*10 - 169*
M2-8:2 FTS	*96*		*10 - 178*
M2-6:2 FTS	*101*		*10 - 182*
13C5 PFHxA	*101*		*11 - 138*
13C4 PFHpA	*107*		*15 - 139*
13C8 PFOA	*98*		*21 - 133*
13C9 PFNA	*99*		*15 - 145*
13C6 PFDA	*98*		*21 - 134*
13C7 PFUnA	*102*		*15 - 138*
13C2-PFDoDA	*101*		*28 - 126*
13C2 PFTeDA	*89*		*10 - 138*
13C3 PFBS	*98*		*23 - 130*
13C3 PFHxS	*98*		*24 - 136*
13C8 PFOS	*103*		*31 - 130*
d3-NMeFOSAA	*84*		*10 - 172*
d5-NEtFOSAA	*91*		*10 - 176*
13C8 FOSA	*88*		*25 - 135*
13C4 PFBA	*98*		*12 - 137*
13C5 PFPeA	*108*		*12 - 135*
d7-N-MeFOSE-M	*88*		*10 - 152*
d3-NMePFOSA	*75*		*10 - 148*
d9-N-EtFOSE-M	*90*		*10 - 157*
d5-NEtPFOSA	*77*		*10 - 151*
13C3 HFPO-DA	*106*		*10 - 152*

Lab Sample ID: LCSD 410-157017/3-B
Matrix: Solid
Analysis Batch: 157416

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157017

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.0	19.1		ng/g		76	61 - 147	5	30
Perfluoroheptanoic acid	25.0	18.7		ng/g		75	61 - 151	4	30
Perfluorooctanoic acid	25.0	19.0		ng/g		76	62 - 144	0	30
Perfluorononanoic acid	25.0	20.2		ng/g		81	62 - 148	5	30
Perfluorodecanoic acid	25.0	16.5		ng/g		66	62 - 142	11	30
Perfluorotridecanoic acid	25.0	17.4		ng/g		69	57 - 152	1	30
Perfluorotetradecanoic acid	25.0	19.2		ng/g		77	60 - 147	3	30
Perfluorobutanesulfonic acid	22.1	17.6		ng/g		80	62 - 137	1	30
Perfluorohexanesulfonic acid	22.8	16.2		ng/g		71	57 - 135	1	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-157017/3-B
Matrix: Solid
Analysis Batch: 157416

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157017

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid			23.1	17.8		ng/g		77	48 - 134	0	30
NEtFOSAA			25.0	18.3		ng/g		73	50 - 140	1	30
NMeFOSAA			25.0	19.3		ng/g		77	53 - 149	3	30
10:2 FTS			24.1	18.4		ng/g		76	42 - 142	4	30
Perfluoropentanesulfonic acid			23.5	21.5		ng/g		92	65 - 145	2	30
Perfluoroheptanesulfonic acid			23.8	18.8		ng/g		79	67 - 138	4	30
Perfluorononanesulfonic acid			24.0	20.3		ng/g		85	63 - 143	0	30
Perfluorodecanesulfonic acid			24.1	20.1		ng/g		83	60 - 142	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.2	19.5		ng/g		81	52 - 145	5	30
Perfluorooctanesulfonamide			25.0	20.2		ng/g		81	52 - 132	0	30
Perfluorohexadecanoic acid			25.0	19.5		ng/g		78	44 - 161	4	30
Perfluorooctadecanoic acid			25.0	19.1		ng/g		77	16 - 175	9	30
Perfluorobutanoic acid			25.0	21.0		ng/g		84	50 - 185	2	30
Perfluoropentanoic acid			25.0	20.8		ng/g		83	69 - 144	2	30
NMeFOSE			25.0	17.9		ng/g		72	47 - 138	11	30
NMeFOSA			25.0	20.5		ng/g		82	43 - 134	7	30
NEtFOSE			25.0	17.5		ng/g		70	46 - 134	0	30
NEtFOSA			25.0	20.7		ng/g		83	48 - 130	8	30
HFPODA			25.0	16.0		ng/g		64	29 - 162	0	30
DONA			23.6	18.0		ng/g		76	48 - 155	2	30
9Cl-PF3ONS			23.3	17.8		ng/g		76	48 - 146	1	30
11Cl-PF3OUdS			23.3	18.2		ng/g		78	45 - 145	1	30
Perfluorododecanoic acid			25.0	17.9		ng/g		71	60 - 147	4	30
4:2 Fluorotelomer sulfonic acid			23.4	18.9		ng/g		81	55 - 132	2	30
Perfluoroundecanoic acid			25.0	18.6		ng/g		74	62 - 144	2	30
6:2 Fluorotelomer sulfonic acid			23.7	20.4		ng/g		86	53 - 137	7	30
8:2 Fluorotelomer sulfonic acid			24.0	19.4		ng/g		81	50 - 147	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*115*		*10 - 169*
M2-8:2 FTS	*109*		*10 - 178*
M2-6:2 FTS	*109*		*10 - 182*
13C5 PFHxA	*115*		*11 - 138*
13C4 PFHpA	*122*		*15 - 139*
13C8 PFOA	*110*		*21 - 133*
13C9 PFNA	*104*		*15 - 145*
13C6 PFDA	*119*		*21 - 134*
13C7 PFUnA	*115*		*15 - 138*
13C2-PFDoDA	*118*		*28 - 126*
13C2 PFTeDA	*106*		*10 - 138*
13C3 PFBS	*103*		*23 - 130*
13C3 PFHxS	*109*		*24 - 136*
13C8 PFOS	*106*		*31 - 130*
d3-NMeFOSAA	*94*		*10 - 172*
d5-NEtFOSAA	*103*		*10 - 176*
13C8 FOSA	*107*		*25 - 135*
13C4 PFBA	*106*		*12 - 137*
13C5 PFPeA	*114*		*12 - 135*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-157017/3-B
Matrix: Solid
Analysis Batch: 157416

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157017

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d7-N-MeFOSE-M	108		10 - 152
d3-NMePFOSA	89		10 - 148
d9-N-EtFOSE-M	106		10 - 157
d5-NEtPFOSA	89		10 - 151
13C3 HFPO-DA	115		10 - 152

Lab Sample ID: MB 410-157018/1-B
Matrix: Solid
Analysis Batch: 158520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
10:2 FTS	<0.60		2.0	0.60	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
NMeFOSE	<0.50		2.0	0.50	ng/g		08/05/21 10:18	08/10/21 14:04	1
NMeFOSA	<0.50		2.0	0.50	ng/g		08/05/21 10:18	08/10/21 14:04	1
NEtFOSE	<0.50		2.0	0.50	ng/g		08/05/21 10:18	08/10/21 14:04	1
NEtFOSA	<0.50		2.0	0.50	ng/g		08/05/21 10:18	08/10/21 14:04	1
HFPODA	<0.40		2.0	0.40	ng/g		08/05/21 10:18	08/10/21 14:04	1
DONA	<0.20		3.0	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/05/21 10:18	08/10/21 14:04	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		08/05/21 10:18	08/10/21 14:04	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/05/21 10:18	08/10/21 14:04	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		08/05/21 10:18	08/10/21 14:04	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	115		10 - 169	08/05/21 10:18	08/10/21 14:04	1
M2-8:2 FTS	123		10 - 178	08/05/21 10:18	08/10/21 14:04	1
M2-6:2 FTS	127		10 - 182	08/05/21 10:18	08/10/21 14:04	1
13C5 PFHxA	110		11 - 138	08/05/21 10:18	08/10/21 14:04	1
13C4 PFHpA	127		15 - 139	08/05/21 10:18	08/10/21 14:04	1
13C8 PFOA	116		21 - 133	08/05/21 10:18	08/10/21 14:04	1
13C9 PFNA	120		15 - 145	08/05/21 10:18	08/10/21 14:04	1
13C6 PFDA	123		21 - 134	08/05/21 10:18	08/10/21 14:04	1
13C7 PFUnA	128		15 - 138	08/05/21 10:18	08/10/21 14:04	1
13C2-PFDoDA	123		28 - 126	08/05/21 10:18	08/10/21 14:04	1
13C2 PFTeDA	113		10 - 138	08/05/21 10:18	08/10/21 14:04	1
13C3 PFBS	115		23 - 130	08/05/21 10:18	08/10/21 14:04	1
13C3 PFHxS	113		24 - 136	08/05/21 10:18	08/10/21 14:04	1
13C8 PFOS	121		31 - 130	08/05/21 10:18	08/10/21 14:04	1
d3-NMeFOSAA	114		10 - 172	08/05/21 10:18	08/10/21 14:04	1
d5-NEtFOSAA	114		10 - 176	08/05/21 10:18	08/10/21 14:04	1
13C8 FOSA	110		25 - 135	08/05/21 10:18	08/10/21 14:04	1
13C4 PFBA	113		12 - 137	08/05/21 10:18	08/10/21 14:04	1
13C5 PFPeA	121		12 - 135	08/05/21 10:18	08/10/21 14:04	1
d7-N-MeFOSE-M	109		10 - 152	08/05/21 10:18	08/10/21 14:04	1
d3-NMePFOSA	93		10 - 148	08/05/21 10:18	08/10/21 14:04	1
d9-N-EtFOSE-M	116		10 - 157	08/05/21 10:18	08/10/21 14:04	1
d5-NEtPFOSA	97		10 - 151	08/05/21 10:18	08/10/21 14:04	1
13C3 HFPO-DA	104		10 - 152	08/05/21 10:18	08/10/21 14:04	1

Lab Sample ID: LCS 410-157018/2-B
Matrix: Solid
Analysis Batch: 158520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.0	19.8		ng/g		79	61 - 147
Perfluoroheptanoic acid	25.0	18.9		ng/g		76	61 - 151
Perfluorooctanoic acid	25.0	19.0		ng/g		76	62 - 144
Perfluorononanoic acid	25.0	19.8		ng/g		79	62 - 148
Perfluorodecanoic acid	25.0	17.3		ng/g		69	62 - 142
Perfluorotridecanoic acid	25.0	18.7		ng/g		75	57 - 152
Perfluorotetradecanoic acid	25.0	19.2		ng/g		77	60 - 147
Perfluorobutanesulfonic acid	22.1	16.8		ng/g		76	62 - 137
Perfluorohexanesulfonic acid	22.8	17.2		ng/g		75	57 - 135
Perfluorooctanesulfonic acid	23.1	17.7		ng/g		77	48 - 134
NEtFOSAA	25.0	17.8		ng/g		71	50 - 140
NMeFOSAA	25.0	17.6		ng/g		70	53 - 149
10:2 FTS	24.1	18.1		ng/g		75	42 - 142
Perfluoropentanesulfonic acid	23.5	19.4		ng/g		83	65 - 145
Perfluoroheptanesulfonic acid	23.8	19.9		ng/g		83	67 - 138
Perfluorononanesulfonic acid	24.0	20.0		ng/g		83	63 - 143
Perfluorodecanesulfonic acid	24.1	19.7		ng/g		82	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	21.0		ng/g		87	52 - 145
Perfluorooctanesulfonamide	25.0	20.9		ng/g		84	52 - 132
Perfluorohexadecanoic acid	25.0	20.1		ng/g		80	44 - 161
Perfluorooctadecanoic acid	25.0	20.0		ng/g		80	16 - 175

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-157018/2-B
Matrix: Solid
Analysis Batch: 158520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157018

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorobutanoic acid			25.0	19.9		ng/g		80	50 - 185		
Perfluoropentanoic acid			25.0	20.0		ng/g		80	69 - 144		
NMeFOSE			25.0	19.3		ng/g		77	47 - 138		
NMeFOSA			25.0	19.7		ng/g		79	43 - 134		
NEtFOSE			25.0	19.3		ng/g		77	46 - 134		
NEtFOSA			25.0	19.4		ng/g		78	48 - 130		
HFPODA			25.0	16.7		ng/g		67	29 - 162		
DONA			23.6	16.3		ng/g		69	48 - 155		
9Cl-PF3ONS			23.3	18.2		ng/g		78	48 - 146		
11Cl-PF3OUdS			23.3	18.5		ng/g		79	45 - 145		
Perfluorododecanoic acid			25.0	18.8		ng/g		75	60 - 147		
4:2 Fluorotelomer sulfonic acid			23.4	17.9		ng/g		77	55 - 132		
Perfluoroundecanoic acid			25.0	17.7		ng/g		71	62 - 144		
6:2 Fluorotelomer sulfonic acid			23.7	18.9		ng/g		80	53 - 137		
8:2 Fluorotelomer sulfonic acid			24.0	18.9		ng/g		79	50 - 147		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*101*		*10 - 169*
M2-8:2 FTS	*116*		*10 - 178*
M2-6:2 FTS	*112*		*10 - 182*
13C5 PFHxA	*107*		*11 - 138*
13C4 PFHpA	*116*		*15 - 139*
13C8 PFOA	*109*		*21 - 133*
13C9 PFNA	*117*		*15 - 145*
13C6 PFDA	*122*		*21 - 134*
13C7 PFUnA	*120*		*15 - 138*
13C2-PFDoDA	*117*		*28 - 126*
13C2 PFTeDA	*107*		*10 - 138*
13C3 PFBS	*117*		*23 - 130*
13C3 PFHxS	*105*		*24 - 136*
13C8 PFOS	*109*		*31 - 130*
d3-NMeFOSAA	*115*		*10 - 172*
d5-NEtFOSAA	*108*		*10 - 176*
13C8 FOSA	*102*		*25 - 135*
13C4 PFBA	*111*		*12 - 137*
13C5 PFPeA	*119*		*12 - 135*
d7-N-MeFOSE-M	*107*		*10 - 152*
d3-NMePFOSA	*92*		*10 - 148*
d9-N-EtFOSE-M	*111*		*10 - 157*
d5-NEtPFOSA	*96*		*10 - 151*
13C3 HFPO-DA	*123*		*10 - 152*

Lab Sample ID: LCSD 410-157018/3-B
Matrix: Solid
Analysis Batch: 158520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157018

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.0	19.9		ng/g		79	61 - 147	0	30
Perfluoroheptanoic acid			25.0	18.1		ng/g		73	61 - 151	4	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-157018/3-B
Matrix: Solid
Analysis Batch: 158520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157018

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid			25.0	19.3		ng/g		77	62 - 144	2	30
Perfluorononanoic acid			25.0	18.6		ng/g		75	62 - 148	6	30
Perfluorodecanoic acid			25.0	18.0		ng/g		72	62 - 142	4	30
Perfluorotridecanoic acid			25.0	19.1		ng/g		76	57 - 152	2	30
Perfluorotetradecanoic acid			25.0	19.1		ng/g		76	60 - 147	1	30
Perfluorobutanesulfonic acid			22.1	17.7		ng/g		80	62 - 137	5	30
Perfluorohexanesulfonic acid			22.8	16.6		ng/g		73	57 - 135	4	30
Perfluorooctanesulfonic acid			23.1	17.7		ng/g		77	48 - 134	0	30
NEtFOSAA			25.0	17.0		ng/g		68	50 - 140	5	30
NMeFOSAA			25.0	19.7		ng/g		79	53 - 149	11	30
10:2 FTS			24.1	19.9		ng/g		82	42 - 142	9	30
Perfluoropentanesulfonic acid			23.5	20.8		ng/g		89	65 - 145	7	30
Perfluoroheptanesulfonic acid			23.8	19.6		ng/g		82	67 - 138	1	30
Perfluorononanesulfonic acid			24.0	19.4		ng/g		81	63 - 143	3	30
Perfluorodecanesulfonic acid			24.1	20.6		ng/g		86	60 - 142	5	30
Perfluorododecanesulfonic acid (PFDoS)			24.2	20.8		ng/g		86	52 - 145	1	30
Perfluorooctanesulfonamide			25.0	19.4		ng/g		78	52 - 132	7	30
Perfluorohexadecanoic acid			25.0	21.0		ng/g		84	44 - 161	4	30
Perfluorooctadecanoic acid			25.0	21.3		ng/g		85	16 - 175	6	30
Perfluorobutanoic acid			25.0	19.9		ng/g		79	50 - 185	0	30
Perfluoropentanoic acid			25.0	20.8		ng/g		83	69 - 144	4	30
NMeFOSE			25.0	19.4		ng/g		78	47 - 138	1	30
NMeFOSA			25.0	20.4		ng/g		81	43 - 134	3	30
NEtFOSE			25.0	19.3		ng/g		77	46 - 134	0	30
NEtFOSA			25.0	19.1		ng/g		76	48 - 130	2	30
HFPODA			25.0	20.0		ng/g		80	29 - 162	18	30
DONA			23.6	15.8		ng/g		67	48 - 155	3	30
9Cl-PF3ONS			23.3	18.3		ng/g		79	48 - 146	0	30
11Cl-PF3OUdS			23.3	18.7		ng/g		80	45 - 145	1	30
Perfluorododecanoic acid			25.0	18.8		ng/g		75	60 - 147	0	30
4:2 Fluorotelomer sulfonic acid			23.4	18.8		ng/g		81	55 - 132	5	30
Perfluoroundecanoic acid			25.0	17.3		ng/g		69	62 - 144	2	30
6:2 Fluorotelomer sulfonic acid			23.7	18.6		ng/g		78	53 - 137	2	30
8:2 Fluorotelomer sulfonic acid			24.0	19.2		ng/g		80	50 - 147	1	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*100*		*10 - 169*
M2-8:2 FTS	*113*		*10 - 178*
M2-6:2 FTS	*102*		*10 - 182*
13C5 PFHxA	*105*		*11 - 138*
13C4 PFHpA	*117*		*15 - 139*
13C8 PFOA	*105*		*21 - 133*
13C9 PFNA	*115*		*15 - 145*
13C6 PFDA	*121*		*21 - 134*
13C7 PFUnA	*128*		*15 - 138*
13C2-PFDoDA	*121*		*28 - 126*
13C2 PFTeDA	*110*		*10 - 138*
13C3 PFBS	*110*		*23 - 130*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-157018/3-B
Matrix: Solid
Analysis Batch: 158520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157018

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C3 PFHxS	108		24 - 136
13C8 PFOS	108		31 - 130
d3-NMeFOSAA	117		10 - 172
d5-NEtFOSAA	123		10 - 176
13C8 FOSA	113		25 - 135
13C4 PFBA	107		12 - 137
13C5 PFPeA	122		12 - 135
d7-N-MeFOSE-M	110		10 - 152
d3-NMePFOSA	101		10 - 148
d9-N-EtFOSE-M	114		10 - 157
d5-NEtPFOSA	106		10 - 151
13C3 HFPO-DA	104		10 - 152

Lab Sample ID: MB 410-159470/1-B
Matrix: Solid
Analysis Batch: 160297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
10:2 FTS	<0.60		2.0	0.60	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
NMeFOSE	<0.50		2.0	0.50	ng/g		08/12/21 04:46	08/14/21 04:40	1
NMeFOSA	<0.50		2.0	0.50	ng/g		08/12/21 04:46	08/14/21 04:40	1
NEtFOSE	<0.50		2.0	0.50	ng/g		08/12/21 04:46	08/14/21 04:40	1
NEtFOSA	<0.50		2.0	0.50	ng/g		08/12/21 04:46	08/14/21 04:40	1
HFPODA	<0.40		2.0	0.40	ng/g		08/12/21 04:46	08/14/21 04:40	1
DONA	<0.20		3.0	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-159470/1-B
Matrix: Solid
Analysis Batch: 160297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/12/21 04:46	08/14/21 04:40	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		08/12/21 04:46	08/14/21 04:40	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		08/12/21 04:46	08/14/21 04:40	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		08/12/21 04:46	08/14/21 04:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*108*		*10 - 169*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
M2-8:2 FTS	*116*		*10 - 178*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
M2-6:2 FTS	*108*		*10 - 182*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C5 PFHxA	*102*		*11 - 138*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C4 PFHpA	*119*		*15 - 139*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C8 PFOA	*101*		*21 - 133*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C9 PFNA	*111*		*15 - 145*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C6 PFDA	*113*		*21 - 134*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C7 PFUnA	*112*		*15 - 138*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C2-PFDoDA	*120*		*28 - 126*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C2 PFTeDA	*103*		*10 - 138*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C3 PFBS	*104*		*23 - 130*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C3 PFHxS	*110*		*24 - 136*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C8 PFOS	*109*		*31 - 130*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
d3-NMeFOSAA	*117*		*10 - 172*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
d5-NEtFOSAA	*117*		*10 - 176*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C8 FOSA	*120*		*25 - 135*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C4 PFBA	*107*		*12 - 137*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C5 PFPeA	*115*		*12 - 135*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
d7-N-MeFOSE-M	*120*		*10 - 152*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
d3-NMePFOSA	*120*		*10 - 148*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
d9-N-EtFOSE-M	*116*		*10 - 157*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
d5-NEtPFOSA	*120*		*10 - 151*	*08/12/21 04:46*	*08/14/21 04:40*	*1*
13C3 HFPO-DA	*124*		*10 - 152*	*08/12/21 04:46*	*08/14/21 04:40*	*1*

Lab Sample ID: LCS 410-159470/2-B
Matrix: Solid
Analysis Batch: 160297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.0	22.2		ng/g		89	61 - 147
Perfluoroheptanoic acid	25.0	20.8		ng/g		83	61 - 151
Perfluorooctanoic acid	25.0	23.3		ng/g		93	62 - 144
Perfluorononanoic acid	25.0	22.2		ng/g		89	62 - 148
Perfluorodecanoic acid	25.0	21.9		ng/g		88	62 - 142
Perfluorotridecanoic acid	25.0	21.4		ng/g		86	57 - 152
Perfluorotetradecanoic acid	25.0	22.8		ng/g		91	60 - 147
Perfluorobutanesulfonic acid	22.1	19.5		ng/g		88	62 - 137
Perfluorohexanesulfonic acid	22.8	20.1		ng/g		88	57 - 135
Perfluorooctanesulfonic acid	23.1	21.5		ng/g		93	48 - 134
NEtFOSAA	25.0	19.2		ng/g		77	50 - 140

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-159470/2-B
Matrix: Solid
Analysis Batch: 160297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
NMeFOSAA	25.0	21.8		ng/g		87	53 - 149
10:2 FTS	24.1	23.2		ng/g		96	42 - 142
Perfluoropentanesulfonic acid	23.5	22.6		ng/g		96	65 - 145
Perfluoroheptanesulfonic acid	23.8	21.3		ng/g		90	67 - 138
Perfluorononanesulfonic acid	24.0	23.8		ng/g		99	63 - 143
Perfluorodecanesulfonic acid	24.1	22.1		ng/g		92	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	24.4		ng/g		101	52 - 145
Perfluorooctanesulfonamide	25.0	22.7		ng/g		91	52 - 132
Perfluorohexadecanoic acid	25.0	21.8		ng/g		87	44 - 161
Perfluorooctadecanoic acid	25.0	23.9		ng/g		96	16 - 175
Perfluorobutanoic acid	25.0	22.0		ng/g		88	50 - 185
Perfluoropentanoic acid	25.0	21.9		ng/g		88	69 - 144
NMeFOSE	25.0	21.2		ng/g		85	47 - 138
NMeFOSA	25.0	21.5		ng/g		86	43 - 134
NEtFOSE	25.0	21.3		ng/g		85	46 - 134
NEtFOSA	25.0	21.0		ng/g		84	48 - 130
HFPODA	25.0	19.0		ng/g		76	29 - 162
DONA	23.6	19.6		ng/g		83	48 - 155
9Cl-PF3ONS	23.3	21.7		ng/g		93	48 - 146
11Cl-PF3OUdS	23.3	20.4		ng/g		88	45 - 145
Perfluorododecanoic acid	25.0	22.3		ng/g		89	60 - 147
4:2 Fluorotelomer sulfonic acid	23.4	20.6		ng/g		88	55 - 132
Perfluoroundecanoic acid	25.0	21.5		ng/g		86	62 - 144
6:2 Fluorotelomer sulfonic acid	23.7	22.3		ng/g		94	53 - 137
8:2 Fluorotelomer sulfonic acid	24.0	19.9		ng/g		83	50 - 147

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*92*		*10 - 169*
M2-8:2 FTS	*100*		*10 - 178*
M2-6:2 FTS	*94*		*10 - 182*
13C5 PFHxA	*98*		*11 - 138*
13C4 PFHpA	*102*		*15 - 139*
13C8 PFOA	*94*		*21 - 133*
13C9 PFNA	*102*		*15 - 145*
13C6 PFDA	*104*		*21 - 134*
13C7 PFUnA	*106*		*15 - 138*
13C2-PFDoDA	*112*		*28 - 126*
13C2 PFTeDA	*105*		*10 - 138*
13C3 PFBS	*99*		*23 - 130*
13C3 PFHxS	*97*		*24 - 136*
13C8 PFOS	*98*		*31 - 130*
d3-NMeFOSAA	*114*		*10 - 172*
d5-NEtFOSAA	*121*		*10 - 176*
13C8 FOSA	*116*		*25 - 135*
13C4 PFBA	*103*		*12 - 137*
13C5 PFPeA	*106*		*12 - 135*
d7-N-MeFOSE-M	*119*		*10 - 152*
d3-NMePFOSA	*114*		*10 - 148*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-159470/2-B
Matrix: Solid
Analysis Batch: 160297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159470

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	114		10 - 157
d5-NEtPFOSA	113		10 - 151
13C3 HFPO-DA	120		10 - 152

Lab Sample ID: LCSD 410-159470/3-B
Matrix: Solid
Analysis Batch: 160297

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 159470

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.0	22.6		ng/g		90	61 - 147	2	30
Perfluoroheptanoic acid			25.0	20.9		ng/g		84	61 - 151	0	30
Perfluorooctanoic acid			25.0	24.5		ng/g		98	62 - 144	5	30
Perfluorononanoic acid			25.0	22.4		ng/g		89	62 - 148	1	30
Perfluorodecanoic acid			25.0	23.1		ng/g		92	62 - 142	5	30
Perfluorotridecanoic acid			25.0	22.2		ng/g		89	57 - 152	4	30
Perfluorotetradecanoic acid			25.0	24.9		ng/g		99	60 - 147	8	30
Perfluorobutanesulfonic acid			22.1	19.6		ng/g		89	62 - 137	1	30
Perfluorohexanesulfonic acid			22.8	21.3		ng/g		93	57 - 135	6	30
Perfluorooctanesulfonic acid			23.1	20.8		ng/g		90	48 - 134	3	30
NEtFOSAA			25.0	20.4		ng/g		81	50 - 140	6	30
NMeFOSAA			25.0	21.0		ng/g		84	53 - 149	3	30
10:2 FTS			24.1	22.8		ng/g		95	42 - 142	2	30
Perfluoropentanesulfonic acid			23.5	22.4		ng/g		95	65 - 145	1	30
Perfluoroheptanesulfonic acid			23.8	22.3		ng/g		94	67 - 138	5	30
Perfluorononanesulfonic acid			24.0	23.4		ng/g		97	63 - 143	2	30
Perfluorodecanesulfonic acid			24.1	21.0		ng/g		87	60 - 142	5	30
Perfluorododecanesulfonic acid (PFDoS)			24.2	23.7		ng/g		98	52 - 145	3	30
Perfluorooctanesulfonamide			25.0	22.8		ng/g		91	52 - 132	0	30
Perfluorohexadecanoic acid			25.0	23.3		ng/g		93	44 - 161	7	30
Perfluorooctadecanoic acid			25.0	25.3		ng/g		101	16 - 175	6	30
Perfluorobutanoic acid			25.0	22.8		ng/g		91	50 - 185	3	30
Perfluoropentanoic acid			25.0	23.0		ng/g		92	69 - 144	5	30
NMeFOSE			25.0	22.5		ng/g		90	47 - 138	6	30
NMeFOSA			25.0	22.1		ng/g		88	43 - 134	3	30
NEtFOSE			25.0	21.9		ng/g		88	46 - 134	3	30
NEtFOSA			25.0	21.1		ng/g		84	48 - 130	0	30
HFPODA			25.0	18.1		ng/g		72	29 - 162	5	30
DONA			23.6	19.7		ng/g		84	48 - 155	1	30
9Cl-PF3ONS			23.3	21.2		ng/g		91	48 - 146	2	30
11Cl-PF3OUdS			23.3	20.7		ng/g		89	45 - 145	2	30
Perfluorododecanoic acid			25.0	20.3		ng/g		81	60 - 147	9	30
4:2 Fluorotelomer sulfonic acid			23.4	20.1		ng/g		86	55 - 132	2	30
Perfluoroundecanoic acid			25.0	21.8		ng/g		87	62 - 144	2	30
6:2 Fluorotelomer sulfonic acid			23.7	22.2		ng/g		94	53 - 137	1	30
8:2 Fluorotelomer sulfonic acid			24.0	20.9		ng/g		87	50 - 147	5	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-4:2 FTS	103		10 - 169

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-159470/3-B
Matrix: Solid
Analysis Batch: 160297

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 159470

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-8:2 FTS	109		10 - 178
M2-6:2 FTS	101		10 - 182
13C5 PFHxA	107		11 - 138
13C4 PFHpA	113		15 - 139
13C8 PFOA	100		21 - 133
13C9 PFNA	111		15 - 145
13C6 PFDA	114		21 - 134
13C7 PFUnA	117		15 - 138
13C2-PFDoDA	123		28 - 126
13C2 PFTeDA	110		10 - 138
13C3 PFBS	109		23 - 130
13C3 PFHxS	106		24 - 136
13C8 PFOS	108		31 - 130
d3-NMeFOSAA	129		10 - 172
d5-NEtFOSAA	131		10 - 176
13C8 FOSA	129		25 - 135
13C4 PFBA	108		12 - 137
13C5 PFPeA	114		12 - 135
d7-N-MeFOSE-M	128		10 - 152
d3-NMePFOSA	124		10 - 148
d9-N-EtFOSE-M	127		10 - 157
d5-NEtPFOSA	125		10 - 151
13C3 HFPO-DA	136		10 - 152

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-157170/1-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoroheptanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorooctanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorononanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorodecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorotridecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorotetradecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorobutanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorohexanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorooctanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
NEtFOSAA	<0.50		3.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
NMeFOSAA	<0.60		2.0	0.60	ng/L		08/05/21 15:45	08/07/21 03:08	1
10:2 FTS	<1.0		5.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoropentanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoroheptanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorononanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorodecanesulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-157170/1-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.50		3.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorooctanesulfonamide	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorohexadecanoic acid	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorooctadecanoic acid	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorobutanoic acid	<2.0		5.0	2.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoropentanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
NMeFOSE	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
NMeFOSA	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
NEtFOSE	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
NEtFOSA	<1.0		5.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
HFPODA	<0.50		3.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
DONA	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
9Cl-PF3ONS	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
11Cl-PF3OUdS	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluorododecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
4:2 Fluorotelomer sulfonic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
Perfluoroundecanoic acid	<0.50		2.0	0.50	ng/L		08/05/21 15:45	08/07/21 03:08	1
6:2 Fluorotelomer sulfonic acid	<2.0		5.0	2.0	ng/L		08/05/21 15:45	08/07/21 03:08	1
8:2 Fluorotelomer sulfonic acid	<1.0		3.0	1.0	ng/L		08/05/21 15:45	08/07/21 03:08	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*89*		*20 - 187*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
M2-8:2 FTS	*85*		*34 - 182*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
M2-6:2 FTS	*92*		*29 - 189*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C5 PFHxA	*85*		*31 - 142*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C4 PFHpA	*91*		*30 - 144*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C8 PFOA	*90*		*49 - 127*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C9 PFNA	*86*		*47 - 136*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C6 PFDA	*86*		*47 - 128*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C7 PFUnA	*86*		*40 - 135*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C2-PFDoDA	*85*		*28 - 136*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C2 PFTeDA	*73*		*10 - 144*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C3 PFBS	*93*		*19 - 178*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C3 PFHxS	*87*		*32 - 145*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C8 PFOS	*81*		*49 - 126*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
d3-NMeFOSAA	*85*		*32 - 151*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
d5-NEtFOSAA	*88*		*37 - 164*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C8 FOSA	*80*		*10 - 143*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C4 PFBA	*83*		*41 - 132*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C5 PFPeA	*92*		*33 - 155*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
d7-N-MeFOSE-M	*79*		*10 - 143*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
d3-NMePFOSA	*48*		*10 - 107*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
d9-N-EtFOSE-M	*75*		*10 - 142*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
d5-NEtPFOSA	*50*		*10 - 108*	*08/05/21 15:45*	*08/07/21 03:08*	*1*
13C3 HFPO-DA	*79*		*20 - 153*	*08/05/21 15:45*	*08/07/21 03:08*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-157170/2-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.6	25.7		ng/L		100	66 - 137
Perfluoroheptanoic acid	25.6	28.1		ng/L		110	66 - 141
Perfluorooctanoic acid	25.6	25.9		ng/L		101	65 - 136
Perfluorononanoic acid	25.6	26.8		ng/L		105	65 - 140
Perfluorodecanoic acid	25.6	26.9		ng/L		105	63 - 137
Perfluorotridecanoic acid	25.6	27.5		ng/L		107	58 - 146
Perfluorotetradecanoic acid	25.6	27.9		ng/L		109	64 - 141
Perfluorobutanesulfonic acid	22.7	22.4		ng/L		99	65 - 132
Perfluorohexanesulfonic acid	23.3	23.4		ng/L		100	60 - 128
Perfluorooctanesulfonic acid	23.7	25.2		ng/L		106	51 - 126
NEtFOSAA	25.6	26.5		ng/L		104	54 - 134
NMeFOSAA	25.6	27.3		ng/L		107	58 - 143
10:2 FTS	24.7	26.0		ng/L		105	44 - 141
Perfluoropentanesulfonic acid	24.0	23.5		ng/L		98	71 - 136
Perfluoroheptanesulfonic acid	24.4	21.7		ng/L		89	67 - 135
Perfluorononanesulfonic acid	24.6	23.4		ng/L		95	67 - 137
Perfluorodecanesulfonic acid	24.7	23.5		ng/L		95	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	24.8	22.0		ng/L		89	54 - 136
Perfluorooctanesulfonamide	25.6	26.1		ng/L		102	55 - 130
Perfluorohexadecanoic acid	25.6	29.6		ng/L		116	52 - 149
Perfluorooctadecanoic acid	25.6	29.8		ng/L		116	32 - 167
Perfluorobutanoic acid	25.6	26.2		ng/L		102	62 - 156
Perfluoropentanoic acid	25.6	26.1		ng/L		102	72 - 139
NMeFOSE	25.6	25.0		ng/L		98	52 - 131
NMeFOSA	25.6	26.5		ng/L		103	49 - 141
NEtFOSE	25.6	26.2		ng/L		102	49 - 128
NEtFOSA	25.6	25.2		ng/L		98	50 - 136
HFPODA	25.6	21.4		ng/L		84	37 - 147
DONA	24.2	23.9		ng/L		99	49 - 158
9Cl-PF3ONS	23.8	23.9		ng/L		100	52 - 135
11Cl-PF3OUdS	23.8	22.9		ng/L		96	45 - 134
Perfluorododecanoic acid	25.6	28.9		ng/L		113	63 - 140
4:2 Fluorotelomer sulfonic acid	23.9	23.5		ng/L		98	59 - 130
Perfluoroundecanoic acid	25.6	27.6		ng/L		108	62 - 138
6:2 Fluorotelomer sulfonic acid	24.3	28.2		ng/L		116	57 - 137
8:2 Fluorotelomer sulfonic acid	24.5	27.1		ng/L		111	56 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*102*		*20 - 187*
M2-8:2 FTS	*84*		*34 - 182*
M2-6:2 FTS	*98*		*29 - 189*
13C5 PFHxA	*91*		*31 - 142*
13C4 PFHpA	*94*		*30 - 144*
13C8 PFOA	*92*		*49 - 127*
13C9 PFNA	*87*		*47 - 136*
13C6 PFDA	*84*		*47 - 128*
13C7 PFUnA	*83*		*40 - 135*
13C2-PFDoDA	*80*		*28 - 136*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-157170/2-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157170

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFTeDA	*77*		*10 - 144*
13C3 PFBS	*100*		*19 - 178*
13C3 PFHxS	*90*		*32 - 145*
13C8 PFOS	*80*		*49 - 126*
d3-NMeFOSAA	*80*		*32 - 151*
d5-NEtFOSAA	*80*		*37 - 164*
13C8 FOSA	*69*		*10 - 143*
13C4 PFBA	*90*		*41 - 132*
13C5 PFPeA	*95*		*33 - 155*
d7-N-MeFOSE-M	*58*		*10 - 143*
d3-NMePFOSA	*15*		*10 - 107*
d9-N-EtFOSE-M	*53*		*10 - 142*
d5-NEtPFOSA	*16*		*10 - 108*
13C3 HFPO-DA	*87*		*20 - 153*

Lab Sample ID: LCSD 410-157170/3-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157170

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	25.4		ng/L		99	66 - 137	1	30
Perfluoroheptanoic acid			25.6	28.1		ng/L		110	66 - 141	0	30
Perfluorooctanoic acid			25.6	26.6		ng/L		104	65 - 136	3	30
Perfluorononanoic acid			25.6	26.7		ng/L		104	65 - 140	1	30
Perfluorodecanoic acid			25.6	26.5		ng/L		103	63 - 137	1	30
Perfluorotridecanoic acid			25.6	26.7		ng/L		104	58 - 146	3	30
Perfluorotetradecanoic acid			25.6	28.7		ng/L		112	64 - 141	3	30
Perfluorobutanesulfonic acid			22.7	23.0		ng/L		102	65 - 132	3	30
Perfluorohexanesulfonic acid			23.3	23.8		ng/L		102	60 - 128	2	30
Perfluorooctanesulfonic acid			23.7	25.5		ng/L		108	51 - 126	1	30
NEtFOSAA			25.6	27.0		ng/L		105	54 - 134	2	30
NMeFOSAA			25.6	28.5		ng/L		111	58 - 143	4	30
10:2 FTS			24.7	24.4		ng/L		99	44 - 141	6	30
Perfluoropentanesulfonic acid			24.0	23.9		ng/L		100	71 - 136	2	30
Perfluoroheptanesulfonic acid			24.4	22.9		ng/L		94	67 - 135	5	30
Perfluorononanesulfonic acid			24.6	24.1		ng/L		98	67 - 137	3	30
Perfluorodecanesulfonic acid			24.7	23.1		ng/L		94	61 - 134	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	21.8		ng/L		88	54 - 136	1	30
Perfluorooctanesulfonamide			25.6	27.6		ng/L		108	55 - 130	6	30
Perfluorohexadecanoic acid			25.6	29.7		ng/L		116	52 - 149	0	30
Perfluorooctadecanoic acid			25.6	30.3		ng/L		118	32 - 167	2	30
Perfluorobutanoic acid			25.6	26.6		ng/L		104	62 - 156	1	30
Perfluoropentanoic acid			25.6	25.8		ng/L		101	72 - 139	1	30
NMeFOSE			25.6	25.2		ng/L		98	52 - 131	1	30
NMeFOSA			25.6	28.6		ng/L		112	49 - 141	8	30
NEtFOSE			25.6	25.9		ng/L		101	49 - 128	1	30
NEtFOSA			25.6	26.4		ng/L		103	50 - 136	5	30
HFPODA			25.6	24.3		ng/L		95	37 - 147	13	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-157170/3-A
Matrix: Water
Analysis Batch: 157605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 157170

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DONA			24.2	24.9		ng/L		103	49 - 158	4	30
9Cl-PF3ONS			23.8	26.2		ng/L		110	52 - 135	9	30
11Cl-PF3OUdS			23.8	22.6		ng/L		95	45 - 134	1	30
Perfluorododecanoic acid			25.6	28.7		ng/L		112	63 - 140	1	30
4:2 Fluorotelomer sulfonic acid			23.9	25.1		ng/L		105	59 - 130	6	30
Perfluoroundecanoic acid			25.6	27.8		ng/L		109	62 - 138	1	30
6:2 Fluorotelomer sulfonic acid			24.3	26.2		ng/L		108	57 - 137	7	30
8:2 Fluorotelomer sulfonic acid			24.5	25.9		ng/L		105	56 - 140	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*101*		*20 - 187*
M2-8:2 FTS	*95*		*34 - 182*
M2-6:2 FTS	*100*		*29 - 189*
13C5 PFHxA	*100*		*31 - 142*
13C4 PFHpA	*100*		*30 - 144*
13C8 PFOA	*94*		*49 - 127*
13C9 PFNA	*92*		*47 - 136*
13C6 PFDA	*92*		*47 - 128*
13C7 PFUnA	*87*		*40 - 135*
13C2-PFDoDA	*84*		*28 - 136*
13C2 PFTeDA	*77*		*10 - 144*
13C3 PFBS	*99*		*19 - 178*
13C3 PFHxS	*92*		*32 - 145*
13C8 PFOS	*83*		*49 - 126*
d3-NMeFOSAA	*84*		*32 - 151*
d5-NEtFOSAA	*89*		*37 - 164*
13C8 FOSA	*86*		*10 - 143*
13C4 PFBA	*95*		*41 - 132*
13C5 PFPeA	*99*		*33 - 155*
d7-N-MeFOSE-M	*87*		*10 - 143*
d3-NMePFOSA	*51*		*10 - 107*
d9-N-EtFOSE-M	*83*		*10 - 142*
d5-NEtPFOSA	*52*		*10 - 108*
13C3 HFPO-DA	*85*		*20 - 153*

LCMS

Prep Batch: 157017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-2	FF-1-S-00-01	Total/NA	Solid	537 (mod)	
410-49518-3	FF-1-S-02-03	Total/NA	Solid	537 (mod)	
410-49518-4	FF-2-S-00-01	Total/NA	Solid	537 (mod)	
410-49518-5	FF-2-S-02-03	Total/NA	Solid	537 (mod)	
MB 410-157017/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-157017/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-157017/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Prep Batch: 157018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-6	FF-3-S-00-01	Total/NA	Solid	537 (mod)	
410-49518-7 - RE	FF-3-S-02-03	Total/NA	Solid	537 (mod)	
410-49518-8	FF-4-S-00-01	Total/NA	Solid	537 (mod)	
410-49518-9	FF-4-S-02-03	Total/NA	Solid	537 (mod)	
MB 410-157018/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-157018/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-157018/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 157069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-2	FF-1-S-00-01	Total/NA	Solid	Extract Aliquot	157017
410-49518-3	FF-1-S-02-03	Total/NA	Solid	Extract Aliquot	157017
410-49518-4	FF-2-S-00-01	Total/NA	Solid	Extract Aliquot	157017
410-49518-5	FF-2-S-02-03	Total/NA	Solid	Extract Aliquot	157017
MB 410-157017/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	157017
LCS 410-157017/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	157017
LCSD 410-157017/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	157017

Cleanup Batch: 157074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-6	FF-3-S-00-01	Total/NA	Solid	Extract Aliquot	157018
410-49518-7 - RE	FF-3-S-02-03	Total/NA	Solid	Extract Aliquot	157018
410-49518-8	FF-4-S-00-01	Total/NA	Solid	Extract Aliquot	157018
410-49518-9	FF-4-S-02-03	Total/NA	Solid	Extract Aliquot	157018
MB 410-157018/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	157018
LCS 410-157018/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	157018
LCSD 410-157018/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	157018

Prep Batch: 157170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-1	FB-072921	Total/NA	Water	EPA 537 (mod)	
410-49518-10	EB-072921	Total/NA	Water	EPA 537 (mod)	
410-49518-11	TRIP BLANK	Total/NA	Water	EPA 537 (mod)	
MB 410-157170/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-157170/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-157170/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 157416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-2	FF-1-S-00-01	Total/NA	Solid	537 IDA	157069
410-49518-3	FF-1-S-02-03	Total/NA	Solid	537 IDA	157069

LCMS (Continued)

Analysis Batch: 157416 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-4	FF-2-S-00-01	Total/NA	Solid	537 IDA	157069
410-49518-5	FF-2-S-02-03	Total/NA	Solid	537 IDA	157069
MB 410-157017/1-B	Method Blank	Total/NA	Solid	537 IDA	157069
LCS 410-157017/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	157069
LCSD 410-157017/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	157069

Analysis Batch: 157605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-1	FB-072921	Total/NA	Water	EPA 537 (Mod)	157170
410-49518-10	EB-072921	Total/NA	Water	EPA 537 (Mod)	157170
410-49518-11	TRIP BLANK	Total/NA	Water	EPA 537 (Mod)	157170
MB 410-157170/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	157170
LCS 410-157170/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	157170
LCSD 410-157170/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	157170

Analysis Batch: 158520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-6	FF-3-S-00-01	Total/NA	Solid	537 IDA	157074
410-49518-7 - RE	FF-3-S-02-03	Total/NA	Solid	537 IDA	157074
410-49518-8	FF-4-S-00-01	Total/NA	Solid	537 IDA	157074
410-49518-9	FF-4-S-02-03	Total/NA	Solid	537 IDA	157074
MB 410-157018/1-B	Method Blank	Total/NA	Solid	537 IDA	157074
LCS 410-157018/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	157074
LCSD 410-157018/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	157074

Prep Batch: 158936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-4 - RE	FF-2-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-158936/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-158936/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-158936/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 159128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-4 - RE	FF-2-S-00-01	Total/NA	Solid	Extract Aliquot	158936
MB 410-158936/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	158936
LCS 410-158936/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	158936
LCSD 410-158936/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	158936

Analysis Batch: 159461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-4 - RE	FF-2-S-00-01	Total/NA	Solid	537 IDA	159128
MB 410-158936/1-B	Method Blank	Total/NA	Solid	537 IDA	159128
LCS 410-158936/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	159128
LCSD 410-158936/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	159128

Prep Batch: 159470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-7	FF-3-S-02-03	Total/NA	Solid	537 (mod)	
MB 410-159470/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-159470/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

LCMS (Continued)

Prep Batch: 159470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-159470/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 159555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-7	FF-3-S-02-03	Total/NA	Solid	Extract Aliquot	159470
MB 410-159470/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	159470
LCS 410-159470/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	159470
LCSD 410-159470/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	159470

Analysis Batch: 160297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-7	FF-3-S-02-03	Total/NA	Solid	537 IDA	159555
MB 410-159470/1-B	Method Blank	Total/NA	Solid	537 IDA	159555
LCS 410-159470/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	159555
LCSD 410-159470/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	159555

General Chemistry

Analysis Batch: 155244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-49518-2	FF-1-S-00-01	Total/NA	Solid	Moisture	
410-49518-3	FF-1-S-02-03	Total/NA	Solid	Moisture	
410-49518-4	FF-2-S-00-01	Total/NA	Solid	Moisture	
410-49518-5	FF-2-S-02-03	Total/NA	Solid	Moisture	
410-49518-6	FF-3-S-00-01	Total/NA	Solid	Moisture	
410-49518-7	FF-3-S-02-03	Total/NA	Solid	Moisture	
410-49518-8	FF-4-S-00-01	Total/NA	Solid	Moisture	
410-49518-9	FF-4-S-02-03	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Client Sample ID: FB-072921
Date Collected: 07/29/21 08:35
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			157170	08/05/21 15:45	QLP7	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	157605	08/07/21 03:52	UCD3	ELLE

Client Sample ID: FF-1-S-00-01
Date Collected: 07/29/21 08:55
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: FF-1-S-00-01
Date Collected: 07/29/21 08:55
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-2
Matrix: Solid
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			157017	08/05/21 10:13	D5VP	ELLE
Total/NA	Cleanup	Extract Aliquot			157069	08/05/21 12:37	D5VP	ELLE
Total/NA	Analysis	537 IDA		1	157416	08/07/21 02:35	MT26	ELLE

Client Sample ID: FF-1-S-02-03
Date Collected: 07/29/21 09:00
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: FF-1-S-02-03
Date Collected: 07/29/21 09:00
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-3
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			157017	08/05/21 10:13	D5VP	ELLE
Total/NA	Cleanup	Extract Aliquot			157069	08/05/21 12:37	D5VP	ELLE
Total/NA	Analysis	537 IDA		1	157416	08/07/21 02:46	MT26	ELLE

Client Sample ID: FF-2-S-00-01
Date Collected: 07/29/21 09:10
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Client Sample ID: FF-2-S-00-01
Date Collected: 07/29/21 09:10
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-4
Matrix: Solid
Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			157017	08/05/21 10:13	D5VP	ELLE
Total/NA	Cleanup	Extract Aliquot			157069	08/05/21 12:37	D5VP	ELLE
Total/NA	Analysis	537 IDA		1	157416	08/07/21 02:56	MT26	ELLE
Total/NA	Prep	537 (mod)	RE		158936	08/11/21 05:28	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		159128	08/11/21 10:56	PR5J	ELLE
Total/NA	Analysis	537 IDA	RE	1	159461	08/12/21 05:46	VK3G	ELLE

Client Sample ID: FF-2-S-02-03
Date Collected: 07/29/21 09:15
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: FF-2-S-02-03
Date Collected: 07/29/21 09:15
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-5
Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			157017	08/05/21 10:13	D5VP	ELLE
Total/NA	Cleanup	Extract Aliquot			157069	08/05/21 12:37	D5VP	ELLE
Total/NA	Analysis	537 IDA		1	157416	08/07/21 03:07	MT26	ELLE

Client Sample ID: FF-3-S-00-01
Date Collected: 07/29/21 09:25
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: FF-3-S-00-01
Date Collected: 07/29/21 09:25
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-6
Matrix: Solid
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			157018	08/05/21 10:18	D5VP	ELLE
Total/NA	Cleanup	Extract Aliquot			157074	08/05/21 12:39	D5VP	ELLE
Total/NA	Analysis	537 IDA		1	158520	08/10/21 14:39	JVK6	ELLE

Client Sample ID: FF-3-S-02-03
Date Collected: 07/29/21 09:30
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: FF-3-S-02-03

Lab Sample ID: 410-49518-7
Date Collected: 07/29/21 09:30
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		157018	08/05/21 10:18	D5VP	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		157074	08/05/21 12:39	D5VP	ELLE
Total/NA	Analysis	537 IDA	RE	1	158520	08/10/21 14:50	JVK6	ELLE
Total/NA	Prep	537 (mod)			159470	08/12/21 04:46	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			159555	08/12/21 08:22	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	160297	08/14/21 05:14	JVK6	ELLE

Client Sample ID: FF-4-S-00-01

Lab Sample ID: 410-49518-8
Date Collected: 07/29/21 09:40
Matrix: Solid
Date Received: 07/31/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: FF-4-S-00-01

Lab Sample ID: 410-49518-8
Date Collected: 07/29/21 09:40
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			157018	08/05/21 10:18	D5VP	ELLE
Total/NA	Cleanup	Extract Aliquot			157074	08/05/21 12:39	D5VP	ELLE
Total/NA	Analysis	537 IDA		1	158520	08/10/21 15:01	JVK6	ELLE

Client Sample ID: FF-4-S-02-03

Lab Sample ID: 410-49518-9
Date Collected: 07/29/21 09:45
Matrix: Solid
Date Received: 07/31/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	155244	08/02/21 06:20	UWC1	ELLE

Client Sample ID: FF-4-S-02-03

Lab Sample ID: 410-49518-9
Date Collected: 07/29/21 09:45
Matrix: Solid
Date Received: 07/31/21 09:45
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			157018	08/05/21 10:18	D5VP	ELLE
Total/NA	Cleanup	Extract Aliquot			157074	08/05/21 12:39	D5VP	ELLE
Total/NA	Analysis	537 IDA		1	158520	08/10/21 15:12	JVK6	ELLE

Client Sample ID: EB-072921

Lab Sample ID: 410-49518-10
Date Collected: 07/29/21 10:10
Matrix: Water
Date Received: 07/31/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			157170	08/05/21 15:45	QLP7	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	157605	08/07/21 04:03	UCD3	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Client Sample ID: TRIP BLANK

Date Collected: 07/29/21 00:00
Date Received: 07/31/21 09:45

Lab Sample ID: 410-49518-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			157170	08/05/21 15:45	QLP7	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	157605	08/07/21 04:14	UCD3	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 IDA	537 (mod)	Solid	10:2 FTS
537 IDA	537 (mod)	Solid	11Cl-PF3OUdS
537 IDA	537 (mod)	Solid	4:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	6:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	8:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	9Cl-PF3ONS
537 IDA	537 (mod)	Solid	DONA
537 IDA	537 (mod)	Solid	HFPODA
537 IDA	537 (mod)	Solid	NEtFOSA
537 IDA	537 (mod)	Solid	NEtFOSAA
537 IDA	537 (mod)	Solid	NEtFOSE
537 IDA	537 (mod)	Solid	NMeFOSA
537 IDA	537 (mod)	Solid	NMeFOSAA
537 IDA	537 (mod)	Solid	NMeFOSE
537 IDA	537 (mod)	Solid	Perfluorobutanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorobutanoic acid
537 IDA	537 (mod)	Solid	Perfluorodecanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorodecanoic acid
537 IDA	537 (mod)	Solid	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	537 (mod)	Solid	Perfluorododecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorohexanoic acid
537 IDA	537 (mod)	Solid	Perfluorononanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorononanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonamide
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorooctanoic acid
537 IDA	537 (mod)	Solid	Perfluoropentanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoropentanoic acid
537 IDA	537 (mod)	Solid	Perfluorotetradecanoic acid
537 IDA	537 (mod)	Solid	Perfluorotridecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroundecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	10:2 FTS
EPA 537 (Mod)	EPA 537 (mod)	Water	11Cl-PF3OUdS
EPA 537 (Mod)	EPA 537 (mod)	Water	4:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	6:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	8:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	9Cl-PF3ONS
EPA 537 (Mod)	EPA 537 (mod)	Water	DONA
EPA 537 (Mod)	EPA 537 (mod)	Water	HFPODA
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSA

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
Massachusetts		State	M-PA009	06-30-22
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSAA	
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSE	
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSA	
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSAA	
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSE	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanesulfonic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanesulfonic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorododecanesulfonic acid (PFDoS)	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorododecanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanesulfonic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexadecanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanesulfonic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanesulfonic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctadecanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonamide	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanesulfonic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotetradecanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotridecanoic acid	
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroundecanoic acid	
Moisture		Solid	Percent Moisture	

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

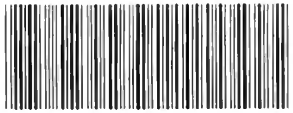
Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-49518-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-49518-1	FB-072921	Water	07/29/21 08:35	07/31/21 09:45
410-49518-2	FF-1-S-00-01	Solid	07/29/21 08:55	07/31/21 09:45
410-49518-3	FF-1-S-02-03	Solid	07/29/21 09:00	07/31/21 09:45
410-49518-4	FF-2-S-00-01	Solid	07/29/21 09:10	07/31/21 09:45
410-49518-5	FF-2-S-02-03	Solid	07/29/21 09:15	07/31/21 09:45
410-49518-6	FF-3-S-00-01	Solid	07/29/21 09:25	07/31/21 09:45
410-49518-7	FF-3-S-02-03	Solid	07/29/21 09:30	07/31/21 09:45
410-49518-8	FF-4-S-00-01	Solid	07/29/21 09:40	07/31/21 09:45
410-49518-9	FF-4-S-02-03	Solid	07/29/21 09:45	07/31/21 09:45
410-49518-10	EB-072921	Water	07/29/21 10:10	07/31/21 09:45
410-49518-11	TRIP BLANK	Water	07/29/21 00:00	07/31/21 09:45

Chain of Custody Record



410-49518 Chain of Custody

: eurofins Environment Testing America

Client Information	Sampler: M. KENNEY / E. TIEDEMAN	Lab PM: Zanar, Elizabeth M	COC No: 10-10575-3304 4
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: elizabethmzanar@eurofinsus.com	Page: Page 1 of 1
Company: Weston Solutions, Inc.			Job #:
Address: 43 North Main Street	Due Date Requested:		Preservation Codes:
City: Concord	TAT Requested (days): STANDARD		A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:
State, Zip: NH, 03301			
Phone: 860 712 2684	PO #: 0102971		
Email: Matthew Kenney@WestonSolutions.com	WO #:		
Project Name: Nantucket	Project #: 41001960		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture - Percent Moisture	PFC_IDA - 36 PFAS	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N		
FB-072921	7/29/21	0835	G	Solid			X	X		
FF-1-S-00-01		0855		Solid			X	X		
FF-1-S-02-03		0900		Solid			X	X		
FF-2-S-00-01		0910		Solid			X	X		
FF-2-S-02-03		0915		Solid			X	X		
FF-3-S-00-01		0925		Solid			X	X		
FF-3-S-02-03		0930		Solid			X	X		
FF-4-S-00-01		0940		Solid			X	X		
FF-4-S-02-03		0945		Solid			X	X		
EB-072921		1010		~~WATER~~ Solid				X		HAND AUGER
TRIP BLANK		—	—	~~WATER~~ Solid				X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by	Date:	Time:	Method of Shipment: FED EX

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	7/30/21 1400	WESTON	SEALED COOLER		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	7/31/21 0945	ELLE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3
		3W 238 945 7/31/21

Ver: 01/16/2019

AEH

8/17/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-49518-1

Login Number: 49518
List Number: 1
Creator: Cottman, Hannah L

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-49518-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes ☑ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 08/17/2021

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-52852-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
9/8/2021 2:42:43 PM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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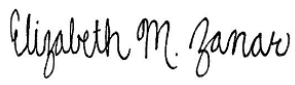

Elizabeth Zanar
Project Manager
9/8/2021 2:42:43 PM

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Qualifiers

LCMS

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-52852-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: _____ **Date:** _____

Job ID: 410-52852-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-52852-1

Receipt
The samples were received on 8/26/2021 10:59 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

PFAS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Client Sample ID: XA-0821-EFF — Lab Sample ID: 410-52852-1

No Detections.

Client Sample ID: XA-0821-MID — Lab Sample ID: 410-52852-2

No Detections.

Client Sample ID: XA-0821-INF — Lab Sample ID: 410-52852-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.6		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	6.7		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	12		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	49		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: HFB-0821-EFF — Lab Sample ID: 410-52852-4

No Detections.

Client Sample ID: HFB-0821-MID — Lab Sample ID: 410-52852-5

No Detections.

Client Sample ID: FB-082521 — Lab Sample ID: 410-52852-6

No Detections.

Client Sample ID: MP-BFCT-082521 — Lab Sample ID: 410-52852-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	14		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: TD-0821-EFF — Lab Sample ID: 410-52852-8

No Detections.

Client Sample ID: TD-0821-MID — Lab Sample ID: 410-52852-9

No Detections.

Client Sample ID: TD-0821-INF — Lab Sample ID: 410-52852-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	53		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	39		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	51		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	160		16		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	74		16		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	280		16		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL2	780		160		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: CCA-0821-EFF — Lab Sample ID: 410-52852-11

No Detections.

Client Sample ID: CCA-0821-MID — Lab Sample ID: 410-52852-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Client Sample ID: CCA-0821-INF — Lab Sample ID: 410-52852-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	44		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	15		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	21		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.4		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL	120		18		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	260		18		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: CCB-0821-EFF — Lab Sample ID: 410-52852-14

No Detections.

Client Sample ID: CCB-0821-MID — Lab Sample ID: 410-52852-15

No Detections.

Client Sample ID: BI-SPGT-082521 — Lab Sample ID: 410-52852-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.9		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	6.3		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: BI-SPGT-082521 DUP — Lab Sample ID: 410-52852-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.1		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	6.4		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	1.6		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 410-52852-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: XA-0821-EFF

Date Collected: 08/24/21 16:40
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-1

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
NEtFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
NMeFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/02/21 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*08/28/21 01:08*	*09/02/21 23:50*	*1*
13C2 PFDA	*100*		*70 - 130*	*08/28/21 01:08*	*09/02/21 23:50*	*1*
13C2 PFHxA	*109*		*70 - 130*	*08/28/21 01:08*	*09/02/21 23:50*	*1*

Client Sample ID: XA-0821-MID

Date Collected: 08/24/21 16:45
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-2

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
NEtFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
NMeFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*104*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:02*	*1*
13C2 PFDA	*96*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:02*	*1*
13C2 PFHxA	*101*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:02*	*1*

Client Sample ID: XA-0821-INF

Date Collected: 08/24/21 16:50
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-3

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.6**		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluorobutanesulfonic acid	**6.7**		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluorohexanesulfonic acid	**12**		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluorooctanesulfonic acid	**49**		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
NEtFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
NMeFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*104*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:13*	*1*
13C2 PFDA	*100*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:13*	*1*
13C2 PFHxA	*99*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:13*	*1*

Client Sample ID: HFB-0821-EFF

Date Collected: 08/24/21 17:40
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-4

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
NEtFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
NMeFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*116*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:25*	*1*
13C2 PFDA	*112*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:25*	*1*
13C2 PFHxA	*116*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:25*	*1*

Client Sample ID: HFB-0821-MID

Date Collected: 08/24/21 17:45
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-5

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
NEtFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
NMeFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:36*	*1*
13C2 PFDA	*95*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:36*	*1*
13C2 PFHxA	*100*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:36*	*1*

Client Sample ID: FB-082521

Date Collected: 08/25/21 09:20
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-6

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
NEtFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
NMeFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*123*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:48*	*1*
13C2 PFDA	*120*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:48*	*1*
13C2 PFHxA	*128*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:48*	*1*

Client Sample ID: MP-BFCT-082521

Lab Sample ID: 410-52852-7

Date Collected: 08/25/21 09:25

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluorohexanesulfonic acid	**14**		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluorooctanesulfonic acid	**5.1**		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
NEtFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
NMeFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*112*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:59*	*1*
13C2 PFDA	*106*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:59*	*1*
13C2 PFHxA	*106*		*70 - 130*	*08/28/21 01:08*	*09/03/21 00:59*	*1*

Client Sample ID: TD-0821-EFF

Lab Sample ID: 410-52852-8

Date Collected: 08/25/21 09:45

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
NEtFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
NMeFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:11*	*1*
13C2 PFDA	*91*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:11*	*1*
13C2 PFHxA	*98*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:11*	*1*

Client Sample ID: TD-0821-MID

Date Collected: 08/25/21 09:50
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-9

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
NEtFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
NMeFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*97*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:22*	*1*
13C2 PFDA	*93*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:22*	*1*
13C2 PFHxA	*97*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:22*	*1*

Client Sample ID: TD-0821-INF

Date Collected: 08/25/21 09:55
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-10

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**53**		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1
Perfluorononanoic acid	**39**		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1
Perfluorobutanesulfonic acid	**51**		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1
NEtFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1
NMeFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*109*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:34*	*1*
13C2 PFDA	*114*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:34*	*1*
13C2 PFHxA	*106*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:34*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**160**		16		ng/L		08/28/21 01:08	09/03/21 23:45	10
Perfluorooctanoic acid	**74**		16		ng/L		08/28/21 01:08	09/03/21 23:45	10
Perfluorooctanesulfonic acid	**280**		16		ng/L		08/28/21 01:08	09/03/21 23:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*08/28/21 01:08*	*09/03/21 23:45*	*10*
13C2 PFDA	*84*		*70 - 130*	*08/28/21 01:08*	*09/03/21 23:45*	*10*

Client Sample ID: TD-0821-INF

Lab Sample ID: 410-52852-10

Date Collected: 08/25/21 09:55

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*84*		*70 - 130*	*08/28/21 01:08*	*09/03/21 23:45*	*10*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	780		160		ng/L		08/28/21 01:08	09/03/21 23:56	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*74*		*70 - 130*	*08/28/21 01:08*	*09/03/21 23:56*	*100*
13C2 PFDA	*76*		*70 - 130*	*08/28/21 01:08*	*09/03/21 23:56*	*100*
13C2 PFHxA	*81*		*70 - 130*	*08/28/21 01:08*	*09/03/21 23:56*	*100*

Client Sample ID: CCA-0821-EFF

Lab Sample ID: 410-52852-11

Date Collected: 08/25/21 10:15

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
NEtFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
NMeFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*70*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:57*	*1*
13C2 PFDA	*86*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:57*	*1*
13C2 PFHxA	*96*		*70 - 130*	*08/28/21 01:08*	*09/03/21 01:57*	*1*

Client Sample ID: CCA-0821-MID

Lab Sample ID: 410-52852-12

Date Collected: 08/25/21 10:17

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1

Client Sample ID: CCA-0821-MID

Date Collected: 08/25/21 10:17
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-12

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
NEtFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
NMeFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*94*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:09*	*1*
13C2 PFDA	*89*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:09*	*1*
13C2 PFHxA	*93*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:09*	*1*

Client Sample ID: CCA-0821-INF

Date Collected: 08/25/21 10:20
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-13

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**44**		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
Perfluoroheptanoic acid	**15**		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
Perfluorooctanoic acid	**21**		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
Perfluorobutanesulfonic acid	**2.4**		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
NEtFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
NMeFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*98*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:20*	*1*
13C2 PFDA	*110*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:20*	*1*
13C2 PFHxA	*107*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:20*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	**120**		18		ng/L		08/28/21 01:08	09/04/21 00:08	10
Perfluorooctanesulfonic acid	**260**		18		ng/L		08/28/21 01:08	09/04/21 00:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*90*		*70 - 130*	*08/28/21 01:08*	*09/04/21 00:08*	*10*
13C2 PFDA	*86*		*70 - 130*	*08/28/21 01:08*	*09/04/21 00:08*	*10*
13C2 PFHxA	*82*		*70 - 130*	*08/28/21 01:08*	*09/04/21 00:08*	*10*

Client Sample ID: CCB-0821-EFF

Lab Sample ID: 410-52852-14

Date Collected: 08/25/21 10:25

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
NEtFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
NMeFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*90*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:32*	*1*
13C2 PFDA	*95*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:32*	*1*
13C2 PFHxA	*102*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:32*	*1*

Client Sample ID: CCB-0821-MID

Lab Sample ID: 410-52852-15

Date Collected: 08/25/21 10:30

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
NEtFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
NMeFOSAA	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/28/21 01:08	09/03/21 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*82*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:43*	*1*
13C2 PFDA	*95*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:43*	*1*
13C2 PFHxA	*98*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:43*	*1*

Client Sample ID: BI-SPGT-082521

Lab Sample ID: 410-52852-16

Date Collected: 08/25/21 11:05

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.9**		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluorohexanesulfonic acid	**6.3**		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
NEtFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
NMeFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:55*	*1*
13C2 PFDA	*98*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:55*	*1*
13C2 PFHxA	*99*		*70 - 130*	*08/28/21 01:08*	*09/03/21 02:55*	*1*

Client Sample ID: BI-SPGT-082521 DUP

Lab Sample ID: 410-52852-17

Date Collected: 08/25/21 11:05

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**3.1**		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluorohexanesulfonic acid	**6.4**		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluorooctanesulfonic acid	**1.6**		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
NEtFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
NMeFOSAA	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/28/21 01:08	09/03/21 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:06*	*1*
13C2 PFDA	*99*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:06*	*1*
13C2 PFHxA	*98*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:06*	*1*

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Client Sample ID: TRIP BLANK

Date Collected: 08/25/21 00:00
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52852-18

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
NEtFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
NMeFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:18*	*1*
13C2 PFDA	*86*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:18*	*1*
13C2 PFHxA	*86*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:18*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-52852-1	XA-0821-EFF	100	100	109
410-52852-2	XA-0821-MID	104	96	101
410-52852-3	XA-0821-INF	104	100	99
410-52852-4	HFB-0821-EFF	116	112	116
410-52852-5	HFB-0821-MID	100	95	100
410-52852-6	FB-082521	123	120	128
410-52852-7	MP-BFCT-082521	112	106	106
410-52852-8	TD-0821-EFF	92	91	98
410-52852-9	TD-0821-MID	97	93	97
410-52852-10	TD-0821-INF	109	114	106
410-52852-10 - DL	TD-0821-INF	89	84	84
410-52852-10 - DL2	TD-0821-INF	74	76	81
410-52852-11	CCA-0821-EFF	70	86	96
410-52852-12	CCA-0821-MID	94	89	93
410-52852-13	CCA-0821-INF	98	110	107
410-52852-13 - DL	CCA-0821-INF	90	86	82
410-52852-14	CCB-0821-EFF	90	95	102
410-52852-15	CCB-0821-MID	82	95	98
410-52852-16	BI-SPGT-082521	96	98	99
410-52852-17	BI-SPGT-082521 DUP	91	99	98
410-52852-18	TRIP BLANK	87	86	86
LCS 410-165642/2-A	Lab Control Sample	109	113	113
LCSD 410-165642/3-A	Lab Control Sample Dup	92	105	109
MB 410-165642/1-A	Method Blank	98	109	123

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-165642/1-A
Matrix: Drinking Water
Analysis Batch: 167522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorononanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
NEtFOSAA	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
NMeFOSAA	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*98*		*70 - 130*	*08/28/21 01:08*	*09/02/21 23:04*	*1*
13C2 PFDA	*109*		*70 - 130*	*08/28/21 01:08*	*09/02/21 23:04*	*1*
13C2 PFHxA	*123*		*70 - 130*	*08/28/21 01:08*	*09/02/21 23:04*	*1*

Lab Sample ID: LCS 410-165642/2-A
Matrix: Drinking Water
Analysis Batch: 167522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	80.0	94.8	E	ng/L		119	70 - 130
Perfluoroheptanoic acid	80.0	94.2	E	ng/L		118	70 - 130
Perfluorooctanoic acid	80.0	88.7	E	ng/L		111	70 - 130
Perfluorononanoic acid	80.0	89.8	E	ng/L		112	70 - 130
Perfluorodecanoic acid	80.0	94.1	E	ng/L		118	70 - 130
Perfluorotridecanoic acid	80.0	90.4	E	ng/L		113	70 - 130
Perfluorotetradecanoic acid	80.0	90.1	E	ng/L		113	70 - 130
Perfluorobutanesulfonic acid	70.8	89.4	E	ng/L		126	70 - 130
Perfluorohexanesulfonic acid	73.0	92.0	E	ng/L		126	70 - 130
Perfluorooctanesulfonic acid	74.0	90.8	E	ng/L		123	70 - 130
NEtFOSAA	80.0	99.8	E	ng/L		125	70 - 130
NMeFOSAA	80.0	98.5	E	ng/L		123	70 - 130
Perfluoroundecanoic acid	80.0	89.0	E	ng/L		111	70 - 130
Perfluorododecanoic acid	80.0	88.7	E	ng/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*109*		*70 - 130*
13C2 PFDA	*113*		*70 - 130*
13C2 PFHxA	*113*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-165642/3-A
Matrix: Drinking Water
Analysis Batch: 167522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 165642

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	91.2	E	ng/L		114	70 - 130	4	30
Perfluoroheptanoic acid			80.0	90.4	E	ng/L		113	70 - 130	4	30
Perfluorooctanoic acid			80.0	92.7	E	ng/L		116	70 - 130	4	30
Perfluorononanoic acid			80.0	86.4	E	ng/L		108	70 - 130	4	30
Perfluorodecanoic acid			80.0	86.9	E	ng/L		109	70 - 130	8	30
Perfluorotridecanoic acid			80.0	81.6	E	ng/L		102	70 - 130	10	30
Perfluorotetradecanoic acid			80.0	81.2	E	ng/L		101	70 - 130	10	30
Perfluorobutanesulfonic acid			70.8	88.6	E	ng/L		125	70 - 130	1	30
Perfluorohexanesulfonic acid			73.0	91.5	E	ng/L		125	70 - 130	0	30
Perfluorooctanesulfonic acid			74.0	89.9	E	ng/L		121	70 - 130	1	30
NEtFOSAA			80.0	78.5		ng/L		98	70 - 130	24	30
NMeFOSAA			80.0	84.2	E	ng/L		105	70 - 130	16	30
Perfluoroundecanoic acid			80.0	85.5	E	ng/L		107	70 - 130	4	30
Perfluorododecanoic acid			80.0	81.8	E	ng/L		102	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*92*		*70 - 130*
13C2 PFDA	*105*		*70 - 130*
13C2 PFHxA	*109*		*70 - 130*

LCMS

Prep Batch: 165642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52852-1	XA-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-2	XA-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-3	XA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-4	HFB-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-5	HFB-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-6	FB-082521	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-7	MP-BFCT-082521	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-8	TD-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-9	TD-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-10	TD-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-10 - DL	TD-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-10 - DL2	TD-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-11	CCA-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-12	CCA-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-13 - DL	CCA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-13	CCA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-14	CCB-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-15	CCB-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-16	BI-SPGT-082521	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-17	BI-SPGT-082521 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52852-18	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-165642/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-165642/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-165642/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 167522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52852-1	XA-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-2	XA-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-3	XA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-4	HFB-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-5	HFB-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-6	FB-082521	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-7	MP-BFCT-082521	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-8	TD-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-9	TD-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-10	TD-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-11	CCA-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-12	CCA-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-13	CCA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-14	CCB-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-15	CCB-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-16	BI-SPGT-082521	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-17	BI-SPGT-082521 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-18	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
MB 410-165642/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
LCS 410-165642/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
LCSD 410-165642/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

LCMS

Analysis Batch: 167901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52852-10 - DL	TD-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-10 - DL2	TD-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
410-52852-13 - DL	CCA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Client Sample ID: XA-0821-EFF
Lab Sample ID: 410-52852-1
Date Collected: 08/24/21 16:40
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/02/21 23:50	DCS9	ELLE

Client Sample ID: XA-0821-MID
Lab Sample ID: 410-52852-2
Date Collected: 08/24/21 16:45
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 00:02	DCS9	ELLE

Client Sample ID: XA-0821-INF
Lab Sample ID: 410-52852-3
Date Collected: 08/24/21 16:50
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 00:13	DCS9	ELLE

Client Sample ID: HFB-0821-EFF
Lab Sample ID: 410-52852-4
Date Collected: 08/24/21 17:40
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 00:25	DCS9	ELLE

Client Sample ID: HFB-0821-MID
Lab Sample ID: 410-52852-5
Date Collected: 08/24/21 17:45
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 00:36	DCS9	ELLE

Client Sample ID: FB-082521
Lab Sample ID: 410-52852-6
Date Collected: 08/25/21 09:20
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 00:48	DCS9	ELLE

Client Sample ID: MP-BFCT-082521

Lab Sample ID: 410-52852-7

Date Collected: 08/25/21 09:25

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 00:59	DCS9	ELLE

Client Sample ID: TD-0821-EFF

Lab Sample ID: 410-52852-8

Date Collected: 08/25/21 09:45

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 01:11	DCS9	ELLE

Client Sample ID: TD-0821-MID

Lab Sample ID: 410-52852-9

Date Collected: 08/25/21 09:50

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 01:22	DCS9	ELLE

Client Sample ID: TD-0821-INF

Lab Sample ID: 410-52852-10

Date Collected: 08/25/21 09:55

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 01:34	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	167901	09/03/21 23:45	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	167901	09/03/21 23:56	Y6ZN	ELLE

Client Sample ID: CCA-0821-EFF

Lab Sample ID: 410-52852-11

Date Collected: 08/25/21 10:15

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 01:57	DCS9	ELLE

Client Sample ID: CCA-0821-MID

Lab Sample ID: 410-52852-12

Date Collected: 08/25/21 10:17

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 02:09	DCS9	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Client Sample ID: CCA-0821-INF
Lab Sample ID: 410-52852-13
Date Collected: 08/25/21 10:20
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 02:20	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	167901	09/04/21 00:08	Y6ZN	ELLE

Client Sample ID: CCB-0821-EFF
Lab Sample ID: 410-52852-14
Date Collected: 08/25/21 10:25
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 02:32	DCS9	ELLE

Client Sample ID: CCB-0821-MID
Lab Sample ID: 410-52852-15
Date Collected: 08/25/21 10:30
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 02:43	DCS9	ELLE

Client Sample ID: BI-SPGT-082521
Lab Sample ID: 410-52852-16
Date Collected: 08/25/21 11:05
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 02:55	DCS9	ELLE

Client Sample ID: BI-SPGT-082521 DUP
Lab Sample ID: 410-52852-17
Date Collected: 08/25/21 11:05
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 03:06	DCS9	ELLE

Client Sample ID: TRIP BLANK
Lab Sample ID: 410-52852-18
Date Collected: 08/25/21 00:00
Matrix: Drinking Water
Date Received: 08/26/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 03:18	DCS9	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-52852-1	XA-0821-EFF	Drinking Water	08/24/21 16:40	08/26/21 10:59
410-52852-2	XA-0821-MID	Drinking Water	08/24/21 16:45	08/26/21 10:59
410-52852-3	XA-0821-INF	Drinking Water	08/24/21 16:50	08/26/21 10:59
410-52852-4	HFB-0821-EFF	Drinking Water	08/24/21 17:40	08/26/21 10:59
410-52852-5	HFB-0821-MID	Drinking Water	08/24/21 17:45	08/26/21 10:59
410-52852-6	FB-082521	Drinking Water	08/25/21 09:20	08/26/21 10:59
410-52852-7	MP-BFCT-082521	Drinking Water	08/25/21 09:25	08/26/21 10:59
410-52852-8	TD-0821-EFF	Drinking Water	08/25/21 09:45	08/26/21 10:59
410-52852-9	TD-0821-MID	Drinking Water	08/25/21 09:50	08/26/21 10:59
410-52852-10	TD-0821-INF	Drinking Water	08/25/21 09:55	08/26/21 10:59
410-52852-11	CCA-0821-EFF	Drinking Water	08/25/21 10:15	08/26/21 10:59
410-52852-12	CCA-0821-MID	Drinking Water	08/25/21 10:17	08/26/21 10:59
410-52852-13	CCA-0821-INF	Drinking Water	08/25/21 10:20	08/26/21 10:59
410-52852-14	CCB-0821-EFF	Drinking Water	08/25/21 10:25	08/26/21 10:59
410-52852-15	CCB-0821-MID	Drinking Water	08/25/21 10:30	08/26/21 10:59
410-52852-16	BI-SPGT-082521	Drinking Water	08/25/21 11:05	08/26/21 10:59
410-52852-17	BI-SPGT-082521 DUP	Drinking Water	08/25/21 11:05	08/26/21 10:59
410-52852-18	TRIP BLANK	Drinking Water	08/25/21 00:00	08/26/21 10:59

; Env, LLC

410-52852 Chain of Custody

Chain of Custody Record

eurofins Environment Testing America

Client Contact: Mr. Matthew Kenney	Sampler: K. SANTARPIO/M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-31912-7788.5
Company: Weston Solutions, Inc.	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 1 of 1
Address: 43 North Main Street	PWSID:	Analysis Requested		Job #:
City: Concord	Due Date Requested:			Preservation Codes:
State, Zip: NH, 03301	TAT Requested (days): STANDARD			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:
Phone: 860 712 2684	Compliance Project: Δ Yes Δ No			
Email: Matthew.Kenney@WestonSolutions.com	PO #: 0102971			
Project Name: Nantucket	WO #:			
Site:	Project #: 41004986			
	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
XA-0821-EFF	8/24/21	1640	G	Drinking Wate			X			
XA-0821-MID		1645		Drinking Wate			X			
XA-0821-INF		1650		Drinking Wate			X			
HFB-0821-EFF		1740		Drinking Wate			X			
HFB-0821-MID		1745		Drinking Wate			X			
FB-082521	8/25/21	0920		Drinking Wate			X			M. KENNEY
MP-BFCT-082521		0925		Drinking Wate			X			
TD-0821-EFF		0945		Drinking Wate			X			
TD-0821-MID		0950		Drinking Wate			X			
TD-0821-INF		0955		Drinking Wate			X			
CCA-0821-EFF		1015		Drinking Wate			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FEDEX

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/25/21 1415	WESTON	SEALED COOLER		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	8/26/21 1059	DHL

Custody Seals Intact: X Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5 °C

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: K. SANTARPIO/M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-31912-7788.6
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin:	Page: Page 6 of 8
Company: Weston Solutions, Inc	PWSID:			Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41004986			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
CCA-0821-MID	8/25/21	1017	G	Drinking Wate			X			
CCA-0821-INF		1020		Drinking Wate			X			
CCB-0821-EFF		1025		Drinking Wate			X			
CCB-0821-MID		1030		Drinking Wate			X			
BI-SPGT-082521		1105		Drinking Wate			X			
BI-SPGT-082521 DUP		1105		Drinking Wate			X			
TRIP BLANK		—		Drinking Wate			X			
				Drinking Wate						
				Drinking Wate						
				Drinking Wate						
				Drinking Wate						

NP

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by	Date:	Time	Method of Shipment: ~~FED EX~~ MP FED EX

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/25/21 1415	WESTON	SEALED COOLER		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	8/26/21 1059	EMW

Custody Seals Intact: X Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5°C

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-52852-1

Login Number: 52852
List Number: 1
Creator: Sanchez, Melvin E

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-52852-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: _____ **Date:** _____

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-52854-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
9/8/2021 2:45:34 PM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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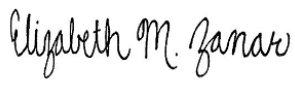

Elizabeth Zanar
Project Manager
9/8/2021 2:45:34 PM

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Qualifiers

LCMS

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-52854-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: _____ **Date:** _____

Job ID: 410-52854-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-52854-1

Receipt
The samples were received on 8/26/2021 10:59 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C

PFAS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Client Sample ID: FB-082421 — Lab Sample ID: 410-52854-1

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 410-52854-2

No Detections.

Client Sample ID: MQ-0821-EFF — Lab Sample ID: 410-52854-3

No Detections.

Client Sample ID: MQ-0821-MID — Lab Sample ID: 410-52854-4

No Detections.

Client Sample ID: MQ-0821-INF — Lab Sample ID: 410-52854-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	10		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	8.0		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	20		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	5.3		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	4.8		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: HFA-0821-EFF — Lab Sample ID: 410-52854-6

No Detections.

Client Sample ID: HFA-0821-MID — Lab Sample ID: 410-52854-7

No Detections.

Client Sample ID: HFA-0821-INF — Lab Sample ID: 410-52854-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	19		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	15		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	3.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	11		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	5.0		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: JI-0821-EFF — Lab Sample ID: 410-52854-9

No Detections.

Client Sample ID: JI-0821-MID — Lab Sample ID: 410-52854-10

No Detections.

Client Sample ID: JI-0821-INF — Lab Sample ID: 410-52854-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	9.7		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	12		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	26		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	2.0		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.8		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	4.8		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	23		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Client Sample ID: FM-0821-EFF — Lab Sample ID: 410-52854-12

No Detections.

Client Sample ID: FM-0821-MID — Lab Sample ID: 410-52854-13

No Detections.

Client Sample ID: FM-0821-INF — Lab Sample ID: 410-52854-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	9.2		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	3.3		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	10		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	14		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: AW-SPGT-082421 — Lab Sample ID: 410-52854-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	2.7		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	6.3		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: DX-SPGT-082421 — Lab Sample ID: 410-52854-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	8.6		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.4		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: DX-SPGT-082421 DUP — Lab Sample ID: 410-52854-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	9.0		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.7		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB-082421

Date Collected: 08/24/21 09:15
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-1
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
NEtFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
NMeFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*103*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:29*	*1*
13C2 PFDA	*104*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:29*	*1*
13C2 PFHxA	*104*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:29*	*1*

Client Sample ID: TRIP BLANK

Date Collected: 08/24/21 00:00
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-2
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
NEtFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
NMeFOSAA	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/28/21 01:08	09/03/21 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*78*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:41*	*1*
13C2 PFDA	*86*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:41*	*1*
13C2 PFHxA	*94*		*70 - 130*	*08/28/21 01:08*	*09/03/21 03:41*	*1*

Client Sample ID: MQ-0821-EFF

Date Collected: 08/24/21 09:45
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-3

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
NEtFOSAA	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
NMeFOSAA	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*08/30/21 07:50*	*09/01/21 06:35*	*1*
13C2 PFDA	*105*		*70 - 130*	*08/30/21 07:50*	*09/01/21 06:35*	*1*
13C2 PFHxA	*106*		*70 - 130*	*08/30/21 07:50*	*09/01/21 06:35*	*1*

Client Sample ID: MQ-0821-MID

Date Collected: 08/24/21 09:50
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-4

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
NEtFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
NMeFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*103*		*70 - 130*	*08/30/21 07:50*	*09/01/21 06:47*	*1*
13C2 PFDA	*99*		*70 - 130*	*08/30/21 07:50*	*09/01/21 06:47*	*1*
13C2 PFHxA	*103*		*70 - 130*	*08/30/21 07:50*	*09/01/21 06:47*	*1*

Client Sample ID: MQ-0821-INF

Lab Sample ID: 410-52854-5

Date Collected: 08/24/21 09:55

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**10**		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluoroheptanoic acid	**8.0**		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluorooctanoic acid	**20**		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluorohexanesulfonic acid	**5.3**		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluorooctanesulfonic acid	**4.8**		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 06:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*107*		*70 - 130*	*08/30/21 07:50*	*09/01/21 06:58*	*1*
13C2 PFDA	*104*		*70 - 130*	*08/30/21 07:50*	*09/01/21 06:58*	*1*
13C2 PFHxA	*90*		*70 - 130*	*08/30/21 07:50*	*09/01/21 06:58*	*1*

Client Sample ID: HFA-0821-EFF

Lab Sample ID: 410-52854-6

Date Collected: 08/24/21 10:35

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*109*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:10*	*1*
13C2 PFDA	*95*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:10*	*1*
13C2 PFHxA	*97*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:10*	*1*

Client Sample ID: HFA-0821-MID

Date Collected: 08/24/21 10:40
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-7
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluoroheptanoic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluorooctanoic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluorononanoic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluorodecanoic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluorotridecanoic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluorotetradecanoic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluorobutanesulfonic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluorohexanesulfonic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluorooctanesulfonic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
NEtFOSAA	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
NMeFOSAA	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluoroundecanoic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1
Perfluorododecanoic acid	<1.9		1.9		ng/L		08/30/21 07:50	09/01/21 07:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*108*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:21*	*1*
13C2 PFDA	*96*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:21*	*1*
13C2 PFHxA	*95*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:21*	*1*

Client Sample ID: HFA-0821-INF

Date Collected: 08/24/21 10:45
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-8
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**19**		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluoroheptanoic acid	**15**		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluorooctanoic acid	**3.5**		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluorobutanesulfonic acid	**11**		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluorohexanesulfonic acid	**5.0**		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
NEtFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
NMeFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*107*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:33*	*1*
13C2 PFDA	*103*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:33*	*1*
13C2 PFHxA	*94*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:33*	*1*

Client Sample ID: JI-0821-EFF

Date Collected: 08/24/21 11:05
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-9

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
NEtFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
NMeFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*107*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:45*	*1*
13C2 PFDA	*96*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:45*	*1*
13C2 PFHxA	*98*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:45*	*1*

Client Sample ID: JI-0821-MID

Date Collected: 08/24/21 11:10
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-10

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
NEtFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
NMeFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 07:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*111*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:56*	*1*
13C2 PFDA	*101*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:56*	*1*
13C2 PFHxA	*102*		*70 - 130*	*08/30/21 07:50*	*09/01/21 07:56*	*1*

Client Sample ID: JI-0821-INF

Lab Sample ID: 410-52854-11

Date Collected: 08/24/21 11:15

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**9.7**		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluoroheptanoic acid	**12**		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluorooctanoic acid	**26**		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluorononanoic acid	**2.0**		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluorobutanesulfonic acid	**2.8**		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluorohexanesulfonic acid	**4.8**		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluorooctanesulfonic acid	**23**		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
NEtFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
NMeFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*102*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:08*	*1*
13C2 PFDA	*95*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:08*	*1*
13C2 PFHxA	*72*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:08*	*1*

Client Sample ID: FM-0821-EFF

Lab Sample ID: 410-52854-12

Date Collected: 08/24/21 11:55

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*109*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:19*	*1*
13C2 PFDA	*106*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:19*	*1*
13C2 PFHxA	*105*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:19*	*1*

Client Sample ID: FM-0821-MID

Date Collected: 08/24/21 12:00
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-13

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*106*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:43*	*1*
13C2 PFDA	*98*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:43*	*1*
13C2 PFHxA	*101*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:43*	*1*

Client Sample ID: FM-0821-INF

Date Collected: 08/24/21 12:05
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-14

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**9.2**		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluoroheptanoic acid	**3.3**		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluorohexanesulfonic acid	**10**		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluorooctanesulfonic acid	**14**		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*107*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:54*	*1*
13C2 PFDA	*99*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:54*	*1*
13C2 PFHxA	*96*		*70 - 130*	*08/30/21 07:50*	*09/01/21 08:54*	*1*

Client Sample ID: AW-SPGT-082421

Lab Sample ID: 410-52854-15

Date Collected: 08/24/21 12:25

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**3.5**		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluorohexanesulfonic acid	**2.7**		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluorooctanesulfonic acid	**6.3**		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
NEtFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
NMeFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*109*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:06*	*1*
13C2 PFDA	*104*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:06*	*1*
13C2 PFHxA	*100*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:06*	*1*

Client Sample ID: DX-SPGT-082421

Lab Sample ID: 410-52854-16

Date Collected: 08/24/21 12:50

Matrix: Drinking Water

Date Received: 08/26/21 10:59

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluorohexanesulfonic acid	**8.6**		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluorooctanesulfonic acid	**5.4**		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*104*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:17*	*1*
13C2 PFDA	*100*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:17*	*1*
13C2 PFHxA	*98*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:17*	*1*

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Client Sample ID: DX-SPGT-082421 DUP

Date Collected: 08/24/21 12:50
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-17

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluorohexanesulfonic acid	**9.0**		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluorooctanesulfonic acid	**5.7**		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
NEtFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
NMeFOSAA	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/30/21 07:50	09/01/21 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*106*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:29*	*1*
13C2 PFDA	*106*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:29*	*1*
13C2 PFHxA	*102*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:29*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-52854-1	FB-082421	103	104	104
410-52854-2	TRIP BLANK	78	86	94
410-52854-3	MQ-0821-EFF	100	105	106
410-52854-4	MQ-0821-MID	103	99	103
410-52854-5	MQ-0821-INF	107	104	90
410-52854-6	HFA-0821-EFF	109	95	97
410-52854-7	HFA-0821-MID	108	96	95
410-52854-8	HFA-0821-INF	107	103	94
410-52854-9	JI-0821-EFF	107	96	98
410-52854-10	JI-0821-MID	111	101	102
410-52854-11	JI-0821-INF	102	95	72
410-52854-12	FM-0821-EFF	109	106	105
410-52854-13	FM-0821-MID	106	98	101
410-52854-14	FM-0821-INF	107	99	96
410-52854-15	AW-SPGT-082421	109	104	100
410-52854-16	DX-SPGT-082421	104	100	98
410-52854-17	DX-SPGT-082421 DUP	106	106	102
LCS 410-165642/2-A	Lab Control Sample	109	113	113
LCS 410-165834/2-A	Lab Control Sample	103	105	104
LCSD 410-165642/3-A	Lab Control Sample Dup	92	105	109
LCSD 410-165834/3-A	Lab Control Sample Dup	97	106	109
MB 410-165642/1-A	Method Blank	98	109	123
MB 410-165834/1-A	Method Blank	112	116	123

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-165642/1-A
Matrix: Drinking Water
Analysis Batch: 167522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorononanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
NEtFOSAA	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
NMeFOSAA	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		08/28/21 01:08	09/02/21 23:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*98*		*70 - 130*	*08/28/21 01:08*	*09/02/21 23:04*	*1*
13C2 PFDA	*109*		*70 - 130*	*08/28/21 01:08*	*09/02/21 23:04*	*1*
13C2 PFHxA	*123*		*70 - 130*	*08/28/21 01:08*	*09/02/21 23:04*	*1*

Lab Sample ID: LCS 410-165642/2-A
Matrix: Drinking Water
Analysis Batch: 167522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	80.0	94.8	E	ng/L		119	70 - 130
Perfluoroheptanoic acid	80.0	94.2	E	ng/L		118	70 - 130
Perfluorooctanoic acid	80.0	88.7	E	ng/L		111	70 - 130
Perfluorononanoic acid	80.0	89.8	E	ng/L		112	70 - 130
Perfluorodecanoic acid	80.0	94.1	E	ng/L		118	70 - 130
Perfluorotridecanoic acid	80.0	90.4	E	ng/L		113	70 - 130
Perfluorotetradecanoic acid	80.0	90.1	E	ng/L		113	70 - 130
Perfluorobutanesulfonic acid	70.8	89.4	E	ng/L		126	70 - 130
Perfluorohexanesulfonic acid	73.0	92.0	E	ng/L		126	70 - 130
Perfluorooctanesulfonic acid	74.0	90.8	E	ng/L		123	70 - 130
NEtFOSAA	80.0	99.8	E	ng/L		125	70 - 130
NMeFOSAA	80.0	98.5	E	ng/L		123	70 - 130
Perfluoroundecanoic acid	80.0	89.0	E	ng/L		111	70 - 130
Perfluorododecanoic acid	80.0	88.7	E	ng/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*109*		*70 - 130*
13C2 PFDA	*113*		*70 - 130*
13C2 PFHxA	*113*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-165642/3-A
Matrix: Drinking Water
Analysis Batch: 167522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 165642

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	91.2	E	ng/L		114	70 - 130	4	30
Perfluoroheptanoic acid			80.0	90.4	E	ng/L		113	70 - 130	4	30
Perfluorooctanoic acid			80.0	92.7	E	ng/L		116	70 - 130	4	30
Perfluorononanoic acid			80.0	86.4	E	ng/L		108	70 - 130	4	30
Perfluorodecanoic acid			80.0	86.9	E	ng/L		109	70 - 130	8	30
Perfluorotridecanoic acid			80.0	81.6	E	ng/L		102	70 - 130	10	30
Perfluorotetradecanoic acid			80.0	81.2	E	ng/L		101	70 - 130	10	30
Perfluorobutanesulfonic acid			70.8	88.6	E	ng/L		125	70 - 130	1	30
Perfluorohexanesulfonic acid			73.0	91.5	E	ng/L		125	70 - 130	0	30
Perfluorooctanesulfonic acid			74.0	89.9	E	ng/L		121	70 - 130	1	30
NEtFOSAA			80.0	78.5		ng/L		98	70 - 130	24	30
NMeFOSAA			80.0	84.2	E	ng/L		105	70 - 130	16	30
Perfluoroundecanoic acid			80.0	85.5	E	ng/L		107	70 - 130	4	30
Perfluorododecanoic acid			80.0	81.8	E	ng/L		102	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*92*		*70 - 130*
13C2 PFDA	*105*		*70 - 130*
13C2 PFHxA	*109*		*70 - 130*

Lab Sample ID: MB 410-165834/1-A
Matrix: Drinking Water
Analysis Batch: 166596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorononanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
NEtFOSAA	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
NMeFOSAA	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*112*		*70 - 130*	*08/30/21 07:50*	*09/01/21 05:49*	*1*
13C2 PFDA	*116*		*70 - 130*	*08/30/21 07:50*	*09/01/21 05:49*	*1*
13C2 PFHxA	*123*		*70 - 130*	*08/30/21 07:50*	*09/01/21 05:49*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCS 410-165834/2-A
Matrix: Drinking Water
Analysis Batch: 166596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			20.5	20.7		ng/L		101	70 - 130		
Perfluoroheptanoic acid			20.5	21.4		ng/L		105	70 - 130		
Perfluorooctanoic acid			20.5	21.2		ng/L		103	70 - 130		
Perfluorononanoic acid			20.5	20.4		ng/L		100	70 - 130		
Perfluorodecanoic acid			20.5	22.2		ng/L		108	70 - 130		
Perfluorotridecanoic acid			20.5	21.7		ng/L		106	70 - 130		
Perfluorotetradecanoic acid			20.5	20.9		ng/L		102	70 - 130		
Perfluorobutanesulfonic acid			18.1	18.7		ng/L		103	70 - 130		
Perfluorohexanesulfonic acid			18.7	20.8		ng/L		112	70 - 130		
Perfluorooctanesulfonic acid			19.0	20.1		ng/L		106	70 - 130		
NEtFOSAA			20.5	20.3		ng/L		99	70 - 130		
NMeFOSAA			20.5	20.7		ng/L		101	70 - 130		
Perfluoroundecanoic acid			20.5	21.2		ng/L		103	70 - 130		
Perfluorododecanoic acid			20.5	21.1		ng/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*103*		*70 - 130*
13C2 PFDA	*105*		*70 - 130*
13C2 PFHxA	*104*		*70 - 130*

Lab Sample ID: LCSD 410-165834/3-A
Matrix: Drinking Water
Analysis Batch: 166596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 165834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	22.8		ng/L		111	70 - 130	10	30
Perfluoroheptanoic acid			20.5	23.5		ng/L		115	70 - 130	9	30
Perfluorooctanoic acid			20.5	22.5		ng/L		110	70 - 130	6	30
Perfluorononanoic acid			20.5	22.4		ng/L		109	70 - 130	9	30
Perfluorodecanoic acid			20.5	23.0		ng/L		112	70 - 130	4	30
Perfluorotridecanoic acid			20.5	23.1		ng/L		113	70 - 130	6	30
Perfluorotetradecanoic acid			20.5	23.2		ng/L		113	70 - 130	10	30
Perfluorobutanesulfonic acid			18.1	18.8		ng/L		104	70 - 130	1	30
Perfluorohexanesulfonic acid			18.7	20.5		ng/L		110	70 - 130	2	30
Perfluorooctanesulfonic acid			19.0	20.2		ng/L		107	70 - 130	1	30
NEtFOSAA			20.5	20.6		ng/L		100	70 - 130	1	30
NMeFOSAA			20.5	20.5		ng/L		100	70 - 130	1	30
Perfluoroundecanoic acid			20.5	22.7		ng/L		111	70 - 130	7	30
Perfluorododecanoic acid			20.5	22.9		ng/L		112	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*97*		*70 - 130*
13C2 PFDA	*106*		*70 - 130*
13C2 PFHxA	*109*		*70 - 130*

LCMS

Prep Batch: 165642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52854-1	FB-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-2	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-165642/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-165642/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-165642/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Prep Batch: 165834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52854-3	MQ-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-4	MQ-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-5	MQ-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-6	HFA-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-7	HFA-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-8	HFA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-9	JI-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-10	JI-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-11	JI-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-12	FM-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-13	FM-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-14	FM-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-15	AW-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-16	DX-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52854-17	DX-SPGT-082421 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-165834/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-165834/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-165834/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 166596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52854-3	MQ-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-4	MQ-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-5	MQ-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-6	HFA-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-7	HFA-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-8	HFA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-9	JI-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-10	JI-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-11	JI-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-12	FM-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-13	FM-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-14	FM-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-15	AW-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-16	DX-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52854-17	DX-SPGT-082421 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
MB 410-165834/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
LCS 410-165834/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
LCSD 410-165834/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834

Analysis Batch: 167522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52854-1	FB-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642

LCMS (Continued)

Analysis Batch: 167522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52854-2	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
MB 410-165642/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
LCS 410-165642/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642
LCSD 410-165642/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	165642

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Client Sample ID: FB-082421
Date Collected: 08/24/21 09:15
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 03:29	DCS9	ELLE

Client Sample ID: TRIP BLANK
Date Collected: 08/24/21 00:00
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-2
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165642	08/28/21 01:08	GU2F	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 03:41	DCS9	ELLE

Client Sample ID: MQ-0821-EFF
Date Collected: 08/24/21 09:45
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-3
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 06:35	VK3G	ELLE

Client Sample ID: MQ-0821-MID
Date Collected: 08/24/21 09:50
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-4
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 06:47	VK3G	ELLE

Client Sample ID: MQ-0821-INF
Date Collected: 08/24/21 09:55
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-5
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 06:58	VK3G	ELLE

Client Sample ID: HFA-0821-EFF
Date Collected: 08/24/21 10:35
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-6
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 07:10	VK3G	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Client Sample ID: HFA-0821-MID
Date Collected: 08/24/21 10:40
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-7
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 07:21	VK3G	ELLE

Client Sample ID: HFA-0821-INF
Date Collected: 08/24/21 10:45
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-8
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 07:33	VK3G	ELLE

Client Sample ID: JI-0821-EFF
Date Collected: 08/24/21 11:05
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-9
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 07:45	VK3G	ELLE

Client Sample ID: JI-0821-MID
Date Collected: 08/24/21 11:10
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-10
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 07:56	VK3G	ELLE

Client Sample ID: JI-0821-INF
Date Collected: 08/24/21 11:15
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-11
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 08:08	VK3G	ELLE

Client Sample ID: FM-0821-EFF
Date Collected: 08/24/21 11:55
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-12
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 08:19	VK3G	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Client Sample ID: FM-0821-MID
Date Collected: 08/24/21 12:00
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-13
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 08:43	VK3G	ELLE

Client Sample ID: FM-0821-INF
Date Collected: 08/24/21 12:05
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-14
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 08:54	VK3G	ELLE

Client Sample ID: AW-SPGT-082421
Date Collected: 08/24/21 12:25
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-15
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 09:06	VK3G	ELLE

Client Sample ID: DX-SPGT-082421
Date Collected: 08/24/21 12:50
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-16
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 09:17	VK3G	ELLE

Client Sample ID: DX-SPGT-082421 DUP
Date Collected: 08/24/21 12:50
Date Received: 08/26/21 10:59

Lab Sample ID: 410-52854-17
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 09:29	VK3G	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52854-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-52854-1	FB-082421	Drinking Water	08/24/21 09:15	08/26/21 10:59
410-52854-2	TRIP BLANK	Drinking Water	08/24/21 00:00	08/26/21 10:59
410-52854-3	MQ-0821-EFF	Drinking Water	08/24/21 09:45	08/26/21 10:59
410-52854-4	MQ-0821-MID	Drinking Water	08/24/21 09:50	08/26/21 10:59
410-52854-5	MQ-0821-INF	Drinking Water	08/24/21 09:55	08/26/21 10:59
410-52854-6	HFA-0821-EFF	Drinking Water	08/24/21 10:35	08/26/21 10:59
410-52854-7	HFA-0821-MID	Drinking Water	08/24/21 10:40	08/26/21 10:59
410-52854-8	HFA-0821-INF	Drinking Water	08/24/21 10:45	08/26/21 10:59
410-52854-9	JI-0821-EFF	Drinking Water	08/24/21 11:05	08/26/21 10:59
410-52854-10	JI-0821-MID	Drinking Water	08/24/21 11:10	08/26/21 10:59
410-52854-11	JI-0821-INF	Drinking Water	08/24/21 11:15	08/26/21 10:59
410-52854-12	FM-0821-EFF	Drinking Water	08/24/21 11:55	08/26/21 10:59
410-52854-13	FM-0821-MID	Drinking Water	08/24/21 12:00	08/26/21 10:59
410-52854-14	FM-0821-INF	Drinking Water	08/24/21 12:05	08/26/21 10:59
410-52854-15	AW-SPGT-082421	Drinking Water	08/24/21 12:25	08/26/21 10:59
410-52854-16	DX-SPGT-082421	Drinking Water	08/24/21 12:50	08/26/21 10:59
410-52854-17	DX-SPGT-082421 DUP	Drinking Water	08/24/21 12:50	08/26/21 10:59

Env, LLC

410-52854 Chain of Custody

Chain of Custody Record

eurofins Environment Testing America

	Sampler: K. SANTARPIO/M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-31912-7788.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 1 of 3
Company: Weston Solutions, Inc	PWSID:			Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41004986			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
FB-082421	8/24/21	0915	G	Drinking Wate			X			K. SANTARPIO
TRIP BLANK		—	—	Drinking Wate			X			
MQ-0821-EFF		0945	G	Drinking Wate			X			
MQ-0821-MID		0950		Drinking Wate			X			
MQ-0821-INF		0955		Drinking Wate			X			
HFA-0821-EFF		1035		Drinking Wate			X			
HFA-0821-MID		1040		Drinking Wate			X			
HFA-0821-INF		1045		Drinking Wate			X			
JI-0821-EFF		1105		Drinking Wate			X			
JI-0821-MID		1110		Drinking Wate			X			
JI-0821-INF		1115		Drinking Wate			X			

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

Relinquished by:	Date/Time: 8/25/21 1400	Company: WESTON	Received by: SEALED COOLER	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 8/26/21 1100	Company: DHL

Custody Seals Intact: X Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.3°C

Ver 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: K. SANTARPIO/M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-31912-7788.2
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 2 of 3
Company: Weston Solutions, Inc.	PWSID:			Job #:
Address: 43 North Main Street	Due Date Requested: 5	Analysis Requested		Preservation Codes:
City: Concord	TAT Requested (days): STANDARD			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 0102971			Other:
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41004986			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:					N		
FM-0821-EFF	8/24/21	1155	G	Drinking Wate			X			
FM-0821-MID		1200		Drinking Wate			X			
FM-0821-INF		1205		Drinking Wate			X			
AW-SPGT-082421		1225		Drinking Wate			X			
DX-SPGT-082421		1250		Drinking Wate			X			
DX-SPGT-082421 DUP		1250		Drinking Wate			X			
				Drinking Wate						
				Drinking Wate						
				Drinking Wate						
				Drinking Wate						
				Drinking Wate						

MP

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/25/21 1400	WESTON	SEALED COOLER		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	8/26/21 1059	EVS

Custody Seals Intact: X Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.3°C

Ver: 06/08/2021

55

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-52854-1

Login Number: 52854
List Number: 1
Creator: Sanchez, Melvin E

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-52854-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: _____ **Date:** _____

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-52855-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
9/10/2021 5:18:38 PM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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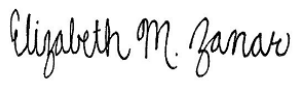

Elizabeth Zanar
Project Manager
9/10/2021 5:18:38 PM

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-52855-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: _____ **Date:** _____

Job ID: 410-52855-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-52855-1

Receipt
The samples were received on 8/26/2021 10:57 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

PFAS
Method 537_DW: The sample injection standard peak areas in the following sample: VTA-0821-INF (410-52855-12) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.The recovery for the surrogate(s) in the following sample: VTA-0821-INF (410-52855-12) is outside the QC acceptance limits due to the matrix of the sample.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Client Sample ID: GJ-SPGT-082421 — Lab Sample ID: 410-52855-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.9		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	9.6		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.2		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: SK-SPGT-082421 — Lab Sample ID: 410-52855-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	1.7		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: WG-SPGT-082421 — Lab Sample ID: 410-52855-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	3.4		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	4.3		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: WG-SPGT-082421 DUP — Lab Sample ID: 410-52855-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	3.6		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	4.5		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: UE-0821-EFF — Lab Sample ID: 410-52855-5

No Detections.

Client Sample ID: UE-0821-MID — Lab Sample ID: 410-52855-6

No Detections.

Client Sample ID: UE-0821-INF — Lab Sample ID: 410-52855-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	15		1.9		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	10		1.9		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorodecanoic acid	4.2		1.9		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.0		1.9		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	35		1.9		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	48		1.9		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	200		19		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid - DL	100		19		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: VTB-0821-EFF — Lab Sample ID: 410-52855-8

No Detections.

Client Sample ID: VTB-0821-MID — Lab Sample ID: 410-52855-9

No Detections.

Client Sample ID: VTA-0821-EFF — Lab Sample ID: 410-52855-10

No Detections.

Client Sample ID: VTA-0821-MID — Lab Sample ID: 410-52855-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Client Sample ID: VTA-0821-INF — Lab Sample ID: 410-52855-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	35	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.0		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	57		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	43		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroundecanoic acid	3.1	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid - DL	290		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	75		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid - DL	54		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL2	530		170		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: EV-0821-EFF — Lab Sample ID: 410-52855-13

No Detections.

Client Sample ID: EV-0821-MID — Lab Sample ID: 410-52855-14

No Detections.

Client Sample ID: EV-0821-INF — Lab Sample ID: 410-52855-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	17		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	3.2		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	2.7		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	5.8		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	37		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.8		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-082421-2 — Lab Sample ID: 410-52855-16

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 410-52855-17

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: GJ-SPGT-082421

Date Collected: 08/24/21 13:15
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-1

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.9**		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluorohexanesulfonic acid	**9.6**		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluorooctanesulfonic acid	**5.2**		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:40*	*1*
13C2 PFDA	*94*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:40*	*1*
13C2 PFHxA	*98*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:40*	*1*

Client Sample ID: SK-SPGT-082421

Date Collected: 08/24/21 13:50
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-2

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluorohexanesulfonic acid	**1.7**		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 09:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*110*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:52*	*1*
13C2 PFDA	*108*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:52*	*1*
13C2 PFHxA	*105*		*70 - 130*	*08/30/21 07:50*	*09/01/21 09:52*	*1*

Client Sample ID: WG-SPGT-082421

Date Collected: 08/24/21 14:15
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-3
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluorobutanesulfonic acid	**3.4**		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluorohexanesulfonic acid	**4.3**		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*110*		*70 - 130*	*08/30/21 07:50*	*09/01/21 10:04*	*1*
13C2 PFDA	*101*		*70 - 130*	*08/30/21 07:50*	*09/01/21 10:04*	*1*
13C2 PFHxA	*103*		*70 - 130*	*08/30/21 07:50*	*09/01/21 10:04*	*1*

Client Sample ID: WG-SPGT-082421 DUP

Date Collected: 08/24/21 14:15
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-4
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluorobutanesulfonic acid	**3.6**		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluorohexanesulfonic acid	**4.5**		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
NEtFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
NMeFOSAA	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/30/21 07:50	09/01/21 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*111*		*70 - 130*	*08/30/21 07:50*	*09/01/21 10:15*	*1*
13C2 PFDA	*102*		*70 - 130*	*08/30/21 07:50*	*09/01/21 10:15*	*1*
13C2 PFHxA	*104*		*70 - 130*	*08/30/21 07:50*	*09/01/21 10:15*	*1*

Client Sample ID: UE-0821-EFF

Lab Sample ID: 410-52855-5

Date Collected: 08/24/21 14:40

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
NEtFOSAA	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
NMeFOSAA	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/30/21 07:50	09/01/21 10:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*107*		*70 - 130*	*08/30/21 07:50*	*09/01/21 10:27*	*1*
13C2 PFDA	*103*		*70 - 130*	*08/30/21 07:50*	*09/01/21 10:27*	*1*
13C2 PFHxA	*101*		*70 - 130*	*08/30/21 07:50*	*09/01/21 10:27*	*1*

Client Sample ID: UE-0821-MID

Lab Sample ID: 410-52855-6

Date Collected: 08/24/21 14:45

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluorononanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
NEtFOSAA	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
NMeFOSAA	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*09/07/21 07:36*	*09/08/21 17:21*	*1*
13C2 PFDA	*102*		*70 - 130*	*09/07/21 07:36*	*09/08/21 17:21*	*1*
13C2 PFHxA	*112*		*70 - 130*	*09/07/21 07:36*	*09/08/21 17:21*	*1*

Client Sample ID: UE-0821-INF

Lab Sample ID: 410-52855-7

Date Collected: 08/24/21 14:50

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	**15**		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
Perfluorononanoic acid	**10**		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
Perfluorodecanoic acid	**4.2**		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
Perfluorotridecanoic acid	<1.9		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
Perfluorotetradecanoic acid	<1.9		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
Perfluorobutanesulfonic acid	**2.0**		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
Perfluorohexanesulfonic acid	**35**		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
Perfluorooctanesulfonic acid	**48**		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
NEtFOSAA	<1.9		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
NMeFOSAA	<1.9		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
Perfluoroundecanoic acid	<1.9		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1
Perfluorododecanoic acid	<1.9		1.9		ng/L		09/07/21 07:36	09/08/21 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*97*		*70 - 130*	*09/07/21 07:36*	*09/08/21 17:33*	*1*
13C2 PFDA	*107*		*70 - 130*	*09/07/21 07:36*	*09/08/21 17:33*	*1*
13C2 PFHxA	*106*		*70 - 130*	*09/07/21 07:36*	*09/08/21 17:33*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**200**		19		ng/L		09/07/21 07:36	09/09/21 18:17	10
Perfluoroheptanoic acid	**100**		19		ng/L		09/07/21 07:36	09/09/21 18:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*105*		*70 - 130*	*09/07/21 07:36*	*09/09/21 18:17*	*10*
13C2 PFDA	*122*		*70 - 130*	*09/07/21 07:36*	*09/09/21 18:17*	*10*
13C2 PFHxA	*134*	*S1+*	*70 - 130*	*09/07/21 07:36*	*09/09/21 18:17*	*10*

Client Sample ID: VTB-0821-EFF

Lab Sample ID: 410-52855-8

Date Collected: 08/24/21 15:10

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluorononanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
NEtFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
NMeFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*09/07/21 07:36*	*09/08/21 17:44*	*1*

Client Sample ID: VTB-0821-EFF

Lab Sample ID: 410-52855-8

Date Collected: 08/24/21 15:10

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	94		70 - 130	09/07/21 07:36	09/08/21 17:44	1
13C2 PFHxA	105		70 - 130	09/07/21 07:36	09/08/21 17:44	1

Client Sample ID: VTB-0821-MID

Lab Sample ID: 410-52855-9

Date Collected: 08/24/21 15:15

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluorononanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
NEtFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
NMeFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	84		70 - 130	09/07/21 07:36	09/08/21 17:56	1
13C2 PFDA	91		70 - 130	09/07/21 07:36	09/08/21 17:56	1
13C2 PFHxA	105		70 - 130	09/07/21 07:36	09/08/21 17:56	1

Client Sample ID: VTA-0821-EFF

Lab Sample ID: 410-52855-10

Date Collected: 08/24/21 15:25

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluorononanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
NEtFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
NMeFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:07	1

Client Sample ID: VTA-0821-EFF

Lab Sample ID: 410-52855-10

Date Collected: 08/24/21 15:25

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*94*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:07*	*1*
13C2 PFDA	*100*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:07*	*1*
13C2 PFHxA	*106*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:07*	*1*

Client Sample ID: VTA-0821-MID

Lab Sample ID: 410-52855-11

Date Collected: 08/24/21 15:30

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluorononanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
NEtFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
NMeFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:19*	*1*
13C2 PFDA	*99*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:19*	*1*
13C2 PFHxA	*114*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:19*	*1*

Client Sample ID: VTA-0821-INF

Lab Sample ID: 410-52855-12

Date Collected: 08/24/21 15:35

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid	**35**	***3**	1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1
Perfluorotridecanoic acid	<1.7	*3	1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1
Perfluorotetradecanoic acid	<1.7	*3	1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1
Perfluorobutanesulfonic acid	**2.0**		1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1
Perfluorohexanesulfonic acid	**57**		1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1
Perfluorooctanesulfonic acid	**43**		1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1
NEtFOSAA	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1
NMeFOSAA	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1
Perfluoroundecanoic acid	**3.1**	***3**	1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1
Perfluorododecanoic acid	<1.7	*3	1.7		ng/L		09/07/21 07:36	09/08/21 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*104*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:31*	*1*
13C2 PFDA	*264*	**3 S1+*	*70 - 130*	*09/07/21 07:36*	*09/08/21 18:31*	*1*
13C2 PFHxA	*237*	**3 S1+*	*70 - 130*	*09/07/21 07:36*	*09/08/21 18:31*	*1*

Client Sample ID: VTA-0821-INF

Lab Sample ID: 410-52855-12

Date Collected: 08/24/21 15:35

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	290		17		ng/L		09/07/21 07:36	09/09/21 18:41	10
Perfluorooctanoic acid	75		17		ng/L		09/07/21 07:36	09/09/21 18:41	10
Perfluorononanoic acid	54		17		ng/L		09/07/21 07:36	09/09/21 18:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*102*		*70 - 130*	*09/07/21 07:36*	*09/09/21 18:41*	*10*
13C2 PFDA	*118*		*70 - 130*	*09/07/21 07:36*	*09/09/21 18:41*	*10*
13C2 PFHxA	*122*		*70 - 130*	*09/07/21 07:36*	*09/09/21 18:41*	*10*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	530		170		ng/L		09/07/21 07:36	09/09/21 18:53	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*09/07/21 07:36*	*09/09/21 18:53*	*100*
13C2 PFDA	*82*		*70 - 130*	*09/07/21 07:36*	*09/09/21 18:53*	*100*
13C2 PFHxA	*92*		*70 - 130*	*09/07/21 07:36*	*09/09/21 18:53*	*100*

Client Sample ID: EV-0821-EFF

Lab Sample ID: 410-52855-13

Date Collected: 08/24/21 16:05

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluorononanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
NEtFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
NMeFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*94*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:42*	*1*
13C2 PFDA	*98*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:42*	*1*
13C2 PFHxA	*113*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:42*	*1*

Client Sample ID: EV-0821-MID

Lab Sample ID: 410-52855-14

Date Collected: 08/24/21 16:10

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1

Client Sample ID: EV-0821-MID

Date Collected: 08/24/21 16:10
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-14

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluorononanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
NEtFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
NMeFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*97*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:54*	*1*
13C2 PFDA	*101*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:54*	*1*
13C2 PFHxA	*111*		*70 - 130*	*09/07/21 07:36*	*09/08/21 18:54*	*1*

Client Sample ID: EV-0821-INF

Date Collected: 08/24/21 16:15
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-15

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**17**		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluoroheptanoic acid	**3.2**		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluorooctanoic acid	**2.7**		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluorononanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluorobutanesulfonic acid	**5.8**		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluorohexanesulfonic acid	**37**		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluorooctanesulfonic acid	**5.8**		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
NEtFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
NMeFOSAA	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		09/07/21 07:36	09/08/21 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*101*		*70 - 130*	*09/07/21 07:36*	*09/08/21 19:05*	*1*
13C2 PFDA	*110*		*70 - 130*	*09/07/21 07:36*	*09/08/21 19:05*	*1*
13C2 PFHxA	*112*		*70 - 130*	*09/07/21 07:36*	*09/08/21 19:05*	*1*

Client Sample ID: FB-082421-2

Lab Sample ID: 410-52855-16

Date Collected: 08/24/21 16:30

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluorononanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
NEtFOSAA	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
NMeFOSAA	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/09/21 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*105*		*70 - 130*	*09/07/21 07:36*	*09/09/21 19:04*	*1*
13C2 PFDA	*102*		*70 - 130*	*09/07/21 07:36*	*09/09/21 19:04*	*1*
13C2 PFHxA	*104*		*70 - 130*	*09/07/21 07:36*	*09/09/21 19:04*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 410-52855-17

Date Collected: 08/24/21 00:00

Matrix: Drinking Water

Date Received: 08/26/21 10:57

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluorononanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
NEtFOSAA	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
NMeFOSAA	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		09/07/21 07:36	09/08/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*09/07/21 07:36*	*09/08/21 19:40*	*1*
13C2 PFDA	*102*		*70 - 130*	*09/07/21 07:36*	*09/08/21 19:40*	*1*
13C2 PFHxA	*111*		*70 - 130*	*09/07/21 07:36*	*09/08/21 19:40*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)					
410-52855-1	GJ-SPGT-082421	100	94	98					
410-52855-2	SK-SPGT-082421	110	108	105					
410-52855-3	WG-SPGT-082421	110	101	103					
410-52855-4	WG-SPGT-082421 DUP	111	102	104					
410-52855-5	UE-0821-EFF	107	103	101					
410-52855-6	UE-0821-MID	95	102	112					
410-52855-7	UE-0821-INF	97	107	106					
410-52855-7 - DL	UE-0821-INF	105	122	134 S1+					
410-52855-8	VTB-0821-EFF	88	94	105					
410-52855-9	VTB-0821-MID	84	91	105					
410-52855-10	VTA-0821-EFF	94	100	106					
410-52855-11	VTA-0821-MID	95	99	114					
410-52855-12	VTA-0821-INF	104	264 *3 S1+	237 *3 S1+					
410-52855-12 - DL	VTA-0821-INF	102	118	122					
410-52855-12 - DL2	VTA-0821-INF	87	82	92					
410-52855-13	EV-0821-EFF	94	98	113					
410-52855-14	EV-0821-MID	97	101	111					
410-52855-15	EV-0821-INF	101	110	112					
410-52855-16	FB-082421-2	105	102	104					
410-52855-17	TRIP BLANK	89	102	111					
LCS 410-165834/2-A	Lab Control Sample	103	105	104					
LCS 410-168339/2-A	Lab Control Sample	114	114	116					
LCSD 410-165834/3-A	Lab Control Sample Dup	97	106	109					
LCSD 410-168339/3-A	Lab Control Sample Dup	105	106	111					
MB 410-165834/1-A	Method Blank	112	116	123					
MB 410-168339/1-A	Method Blank	115	117	122					

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-165834/1-A
Matrix: Drinking Water
Analysis Batch: 166596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorononanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
NEtFOSAA	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
NMeFOSAA	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		08/30/21 07:50	09/01/21 05:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*112*		*70 - 130*	*08/30/21 07:50*	*09/01/21 05:49*	*1*
13C2 PFDA	*116*		*70 - 130*	*08/30/21 07:50*	*09/01/21 05:49*	*1*
13C2 PFHxA	*123*		*70 - 130*	*08/30/21 07:50*	*09/01/21 05:49*	*1*

Lab Sample ID: LCS 410-165834/2-A
Matrix: Drinking Water
Analysis Batch: 166596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	20.7		ng/L		101	70 - 130
Perfluoroheptanoic acid	20.5	21.4		ng/L		105	70 - 130
Perfluorooctanoic acid	20.5	21.2		ng/L		103	70 - 130
Perfluorononanoic acid	20.5	20.4		ng/L		100	70 - 130
Perfluorodecanoic acid	20.5	22.2		ng/L		108	70 - 130
Perfluorotridecanoic acid	20.5	21.7		ng/L		106	70 - 130
Perfluorotetradecanoic acid	20.5	20.9		ng/L		102	70 - 130
Perfluorobutanesulfonic acid	18.1	18.7		ng/L		103	70 - 130
Perfluorohexanesulfonic acid	18.7	20.8		ng/L		112	70 - 130
Perfluorooctanesulfonic acid	19.0	20.1		ng/L		106	70 - 130
NEtFOSAA	20.5	20.3		ng/L		99	70 - 130
NMeFOSAA	20.5	20.7		ng/L		101	70 - 130
Perfluoroundecanoic acid	20.5	21.2		ng/L		103	70 - 130
Perfluorododecanoic acid	20.5	21.1		ng/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*103*		*70 - 130*
13C2 PFDA	*105*		*70 - 130*
13C2 PFHxA	*104*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-165834/3-A
Matrix: Drinking Water
Analysis Batch: 166596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 165834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	22.8		ng/L		111	70 - 130	10	30
Perfluoroheptanoic acid			20.5	23.5		ng/L		115	70 - 130	9	30
Perfluorooctanoic acid			20.5	22.5		ng/L		110	70 - 130	6	30
Perfluorononanoic acid			20.5	22.4		ng/L		109	70 - 130	9	30
Perfluorodecanoic acid			20.5	23.0		ng/L		112	70 - 130	4	30
Perfluorotridecanoic acid			20.5	23.1		ng/L		113	70 - 130	6	30
Perfluorotetradecanoic acid			20.5	23.2		ng/L		113	70 - 130	10	30
Perfluorobutanesulfonic acid			18.1	18.8		ng/L		104	70 - 130	1	30
Perfluorohexanesulfonic acid			18.7	20.5		ng/L		110	70 - 130	2	30
Perfluorooctanesulfonic acid			19.0	20.2		ng/L		107	70 - 130	1	30
NEtFOSAA			20.5	20.6		ng/L		100	70 - 130	1	30
NMeFOSAA			20.5	20.5		ng/L		100	70 - 130	1	30
Perfluoroundecanoic acid			20.5	22.7		ng/L		111	70 - 130	7	30
Perfluorododecanoic acid			20.5	22.9		ng/L		112	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*97*		*70 - 130*
13C2 PFDA	*106*		*70 - 130*
13C2 PFHxA	*109*		*70 - 130*

Lab Sample ID: MB 410-168339/1-A
Matrix: Drinking Water
Analysis Batch: 169067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluorononanoic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
NEtFOSAA	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
NMeFOSAA	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		09/07/21 07:36	09/08/21 16:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*115*		*70 - 130*	*09/07/21 07:36*	*09/08/21 16:35*	*1*
13C2 PFDA	*117*		*70 - 130*	*09/07/21 07:36*	*09/08/21 16:35*	*1*
13C2 PFHxA	*122*		*70 - 130*	*09/07/21 07:36*	*09/08/21 16:35*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCS 410-168339/2-A
Matrix: Drinking Water
Analysis Batch: 169067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168339

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			20.5	22.1		ng/L		108	70 - 130		
Perfluoroheptanoic acid			20.5	22.7		ng/L		111	70 - 130		
Perfluorooctanoic acid			20.5	21.5		ng/L		105	70 - 130		
Perfluorononanoic acid			20.5	21.3		ng/L		104	70 - 130		
Perfluorodecanoic acid			20.5	22.8		ng/L		111	70 - 130		
Perfluorotridecanoic acid			20.5	20.7		ng/L		101	70 - 130		
Perfluorotetradecanoic acid			20.5	19.6		ng/L		96	70 - 130		
Perfluorobutanesulfonic acid			18.1	19.5		ng/L		108	70 - 130		
Perfluorohexanesulfonic acid			18.7	21.1		ng/L		113	70 - 130		
Perfluorooctanesulfonic acid			19.0	20.2		ng/L		107	70 - 130		
NEtFOSAA			20.5	22.7		ng/L		111	70 - 130		
NMeFOSAA			20.5	22.3		ng/L		109	70 - 130		
Perfluoroundecanoic acid			20.5	21.2		ng/L		104	70 - 130		
Perfluorododecanoic acid			20.5	20.8		ng/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*114*		*70 - 130*
13C2 PFDA	*114*		*70 - 130*
13C2 PFHxA	*116*		*70 - 130*

Lab Sample ID: LCSD 410-168339/3-A
Matrix: Drinking Water
Analysis Batch: 169067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 168339

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	21.4		ng/L		104	70 - 130	4	30
Perfluoroheptanoic acid			20.5	20.8		ng/L		102	70 - 130	9	30
Perfluorooctanoic acid			20.5	20.6		ng/L		101	70 - 130	4	30
Perfluorononanoic acid			20.5	20.1		ng/L		98	70 - 130	6	30
Perfluorodecanoic acid			20.5	22.3		ng/L		109	70 - 130	2	30
Perfluorotridecanoic acid			20.5	19.6		ng/L		96	70 - 130	6	30
Perfluorotetradecanoic acid			20.5	18.8		ng/L		92	70 - 130	4	30
Perfluorobutanesulfonic acid			18.1	18.4		ng/L		101	70 - 130	6	30
Perfluorohexanesulfonic acid			18.7	20.2		ng/L		108	70 - 130	4	30
Perfluorooctanesulfonic acid			19.0	19.8		ng/L		104	70 - 130	2	30
NEtFOSAA			20.5	21.8		ng/L		106	70 - 130	4	30
NMeFOSAA			20.5	22.5		ng/L		110	70 - 130	1	30
Perfluoroundecanoic acid			20.5	19.9		ng/L		97	70 - 130	6	30
Perfluorododecanoic acid			20.5	19.8		ng/L		97	70 - 130	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*105*		*70 - 130*
13C2 PFDA	*106*		*70 - 130*
13C2 PFHxA	*111*		*70 - 130*

LCMS

Prep Batch: 165834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52855-1	GJ-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-2	SK-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-3	WG-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-4	WG-SPGT-082421 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-5	UE-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-165834/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-165834/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-165834/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 166596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52855-1	GJ-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52855-2	SK-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52855-3	WG-SPGT-082421	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52855-4	WG-SPGT-082421 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
410-52855-5	UE-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
MB 410-165834/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
LCS 410-165834/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834
LCSD 410-165834/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	165834

Prep Batch: 168339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52855-6	UE-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-7 - DL	UE-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-7	UE-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-8	VTB-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-9	VTB-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-10	VTA-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-11	VTA-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-12 - DL	VTA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-12 - RA	VTA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-12	VTA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-12 - DL2	VTA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-13	EV-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-14	EV-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-15	EV-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-16	FB-082421-2	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-52855-17	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-168339/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-168339/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-168339/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 169067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52855-6	UE-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-7	UE-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-8	VTB-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-9	VTB-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-10	VTA-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-11	VTA-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-12	VTA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339

LCMS (Continued)

Analysis Batch: 169067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52855-13	EV-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-14	EV-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-15	EV-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-17	TRIP BLANK	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
MB 410-168339/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
LCS 410-168339/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
LCSD 410-168339/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339

Analysis Batch: 169573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-52855-7 - DL	UE-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-12 - RA	VTA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-12 - DL	VTA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-12 - DL2	VTA-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339
410-52855-16	FB-082421-2	Total/NA	Drinking Water	EPA 537 Ver 1.1	168339

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Client Sample ID: GJ-SPGT-082421
Lab Sample ID: 410-52855-1
Date Collected: 08/24/21 13:15
Matrix: Drinking Water
Date Received: 08/26/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 09:40	VK3G	ELLE

Client Sample ID: SK-SPGT-082421
Lab Sample ID: 410-52855-2
Date Collected: 08/24/21 13:50
Matrix: Drinking Water
Date Received: 08/26/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 09:52	VK3G	ELLE

Client Sample ID: WG-SPGT-082421
Lab Sample ID: 410-52855-3
Date Collected: 08/24/21 14:15
Matrix: Drinking Water
Date Received: 08/26/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 10:04	VK3G	ELLE

Client Sample ID: WG-SPGT-082421 DUP
Lab Sample ID: 410-52855-4
Date Collected: 08/24/21 14:15
Matrix: Drinking Water
Date Received: 08/26/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 10:15	VK3G	ELLE

Client Sample ID: UE-0821-EFF
Lab Sample ID: 410-52855-5
Date Collected: 08/24/21 14:40
Matrix: Drinking Water
Date Received: 08/26/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			165834	08/30/21 07:50	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	166596	09/01/21 10:27	VK3G	ELLE

Client Sample ID: UE-0821-MID
Lab Sample ID: 410-52855-6
Date Collected: 08/24/21 14:45
Matrix: Drinking Water
Date Received: 08/26/21 10:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 17:21	Y6ZN	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Client Sample ID: UE-0821-INF
Date Collected: 08/24/21 14:50
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-7
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 17:33	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	169573	09/09/21 18:17	Y6ZN	ELLE

Client Sample ID: VTB-0821-EFF
Date Collected: 08/24/21 15:10
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-8
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 17:44	Y6ZN	ELLE

Client Sample ID: VTB-0821-MID
Date Collected: 08/24/21 15:15
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-9
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 17:56	Y6ZN	ELLE

Client Sample ID: VTA-0821-EFF
Date Collected: 08/24/21 15:25
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-10
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 18:07	Y6ZN	ELLE

Client Sample ID: VTA-0821-MID
Date Collected: 08/24/21 15:30
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-11
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 18:19	Y6ZN	ELLE

Client Sample ID: VTA-0821-INF
Date Collected: 08/24/21 15:35
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-12
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 18:31	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	RA		168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	RA	1	169573	09/09/21 18:29	Y6ZN	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Client Sample ID: VTA-0821-INF
Date Collected: 08/24/21 15:35
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-12
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1	DL		168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	169573	09/09/21 18:41	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	169573	09/09/21 18:53	Y6ZN	ELLE

Client Sample ID: EV-0821-EFF
Date Collected: 08/24/21 16:05
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-13
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 18:42	Y6ZN	ELLE

Client Sample ID: EV-0821-MID
Date Collected: 08/24/21 16:10
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-14
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 18:54	Y6ZN	ELLE

Client Sample ID: EV-0821-INF
Date Collected: 08/24/21 16:15
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-15
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 19:05	Y6ZN	ELLE

Client Sample ID: FB-082421-2
Date Collected: 08/24/21 16:30
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-16
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169573	09/09/21 19:04	Y6ZN	ELLE

Client Sample ID: TRIP BLANK
Date Collected: 08/24/21 00:00
Date Received: 08/26/21 10:57

Lab Sample ID: 410-52855-17
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168339	09/07/21 07:36	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 19:40	Y6ZN	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-52855-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-52855-1	GJ-SPGT-082421	Drinking Water	08/24/21 13:15	08/26/21 10:57
410-52855-2	SK-SPGT-082421	Drinking Water	08/24/21 13:50	08/26/21 10:57
410-52855-3	WG-SPGT-082421	Drinking Water	08/24/21 14:15	08/26/21 10:57
410-52855-4	WG-SPGT-082421 DUP	Drinking Water	08/24/21 14:15	08/26/21 10:57
410-52855-5	UE-0821-EFF	Drinking Water	08/24/21 14:40	08/26/21 10:57
410-52855-6	UE-0821-MID	Drinking Water	08/24/21 14:45	08/26/21 10:57
410-52855-7	UE-0821-INF	Drinking Water	08/24/21 14:50	08/26/21 10:57
410-52855-8	VTB-0821-EFF	Drinking Water	08/24/21 15:10	08/26/21 10:57
410-52855-9	VTB-0821-MID	Drinking Water	08/24/21 15:15	08/26/21 10:57
410-52855-10	VTA-0821-EFF	Drinking Water	08/24/21 15:25	08/26/21 10:57
410-52855-11	VTA-0821-MID	Drinking Water	08/24/21 15:30	08/26/21 10:57
410-52855-12	VTA-0821-INF	Drinking Water	08/24/21 15:35	08/26/21 10:57
410-52855-13	EV-0821-EFF	Drinking Water	08/24/21 16:05	08/26/21 10:57
410-52855-14	EV-0821-MID	Drinking Water	08/24/21 16:10	08/26/21 10:57
410-52855-15	EV-0821-INF	Drinking Water	08/24/21 16:15	08/26/21 10:57
410-52855-16	FB-082421-2	Drinking Water	08/24/21 16:30	08/26/21 10:57
410-52855-17	TRIP BLANK	Drinking Water	08/24/21 00:00	08/26/21 10:57

410-52855 Chain of Custody

nv, LLC

Chain of Custody Record

eurofins Environment Testing America

Client Contact: Mr Matthew Kenney	Sampler: K. SANTARPIO/M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-31912-7788.3
Company: Weston Solutions, Inc	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 1 of 2
Address: 43 North Main Street	PWSID:	Analysis Requested		Job #:
City: Concord	Due Date Requested:			Preservation Codes:
State, Zip: NH, 03301	TAT Requested (days): STANDARD			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Phone: 860 712 2684	Compliance Project: Δ Yes Δ No			
Email: Matthew.Kenney@WestonSolutions.com	PO #: 0102971			Other:
Project Name: Nantucket	WO #:			
Site:	Project #: 41004986			
	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
GJ-SPGT-082421	8/24/21	1315	G	Drinking Wate			X			
SK-SPGT-082421		1350		Drinking Wate			X			
WG-SPGT-082421		1415		Drinking Wate			X			
WG-SPGT-082421 DUP		1415		Drinking Wate			X			
UE-0821-EFF		1440		Drinking Wate			X			
UE-0821-MID		1445		Drinking Wate			X			
UE-0821-INF		1450		Drinking Wate			X			
VTB-0821-EFF		1510		Drinking Wate			X			
VTB-0821-MID		1515		Drinking Wate			X			
VTA-0821-EFF		1525		Drinking Wate			X			
VTA-0821-MID		1530		Drinking Wate			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	8/25/21 1405	WESTON	SEALED COOLER		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	8/26/21 1057	FEDEX

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1 °C

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: K. SANTARPIO / M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-31912-7788 4
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: Weston Solutions, Inc	PWSID:			Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41004986			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
VTA-0821-INF	8/24/21	1535	G	Drinking Wate			X			
EV-0821-EFF		1605		Drinking Wate			X			
EV-0821-MID		1610		Drinking Wate			X			
EV-0821-INF		1615		Drinking Wate			X			
FB-082421-2		1630		Drinking Wate			X			K. SANTARPIO
TRIP BLANK		—	—	Drinking Wate			X			
				Drinking Wate						
				Drinking Wate						
				Drinking Wate						
				Drinking Wate						
				Drinking Wate						

MP

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/25/21 1405	WESTON	SEALED COOLER		
2						
3					8/26/21 1057	ELLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1°C

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-52855-1

Login Number: 52855
List Number: 1
Creator: Sanchez, Melvin E

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-52855-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: _____ **Date:** _____

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-53024-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
9/14/2021 10:26:31 AM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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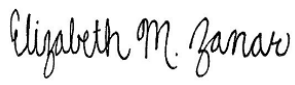

Elizabeth Zanar
Project Manager
9/14/2021 10:26:31 AM

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-53024-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-53024-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
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6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 09/14/2021

Job ID: 410-53024-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-53024-1

Receipt
The samples were received on 8/27/2021 10:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

PFAS
Method 537_DW: Due to the matrix of the sample, the recovery for the internal standard(s) and surrogate(s) in the following sample: QO-0821-INF (410-53024-4) is outside of QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-53024-1

Client Sample ID: JQ-BFCT-082521 — Lab Sample ID: 410-53024-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.7		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	6.8		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	11		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: QO-0821-EFF — Lab Sample ID: 410-53024-2

No Detections.

Client Sample ID: QO-0821-MID — Lab Sample ID: 410-53024-3

No Detections.

Client Sample ID: QO-0821-INF — Lab Sample ID: 410-53024-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	59	*3	1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	14		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	540		16		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid - DL	120		16		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL2	1200		160		ng/L	100		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL2	1200		160		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-082521-2 — Lab Sample ID: 410-53024-5

No Detections.

Client Sample ID: NU-0821-EFF — Lab Sample ID: 410-53024-6

No Detections.

Client Sample ID: NU-0821-MID — Lab Sample ID: 410-53024-7

No Detections.

Client Sample ID: NU-0821-INF — Lab Sample ID: 410-53024-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	4.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	11		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-53024-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: JQ-BFCT-082521

Lab Sample ID: 410-53024-1

Date Collected: 08/25/21 11:20

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.7**		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluorohexanesulfonic acid	**6.8**		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluorooctanesulfonic acid	**11**		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
NEtFOSAA	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
NMeFOSAA	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*105*		*70 - 130*	*08/31/21 05:11*	*09/03/21 05:48*	*1*
13C2 PFDA	*105*		*70 - 130*	*08/31/21 05:11*	*09/03/21 05:48*	*1*
13C2 PFHxA	*106*		*70 - 130*	*08/31/21 05:11*	*09/03/21 05:48*	*1*

Client Sample ID: QO-0821-EFF

Lab Sample ID: 410-53024-2

Date Collected: 08/25/21 11:40

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
NEtFOSAA	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
NMeFOSAA	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*08/31/21 05:11*	*09/03/21 05:59*	*1*
13C2 PFDA	*105*		*70 - 130*	*08/31/21 05:11*	*09/03/21 05:59*	*1*
13C2 PFHxA	*108*		*70 - 130*	*08/31/21 05:11*	*09/03/21 05:59*	*1*

Client Sample ID: QO-0821-MID

Date Collected: 08/25/21 11:45
Date Received: 08/27/21 10:56

Lab Sample ID: 410-53024-3

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
NEtFOSAA	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
NMeFOSAA	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*97*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:11*	*1*
13C2 PFDA	*98*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:11*	*1*
13C2 PFHxA	*105*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:11*	*1*

Client Sample ID: QO-0821-INF

Date Collected: 08/25/21 11:50
Date Received: 08/27/21 10:56

Lab Sample ID: 410-53024-4

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**59**	***3**	1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1
Perfluorononanoic acid	<1.6	*3	1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1
Perfluorodecanoic acid	<1.6	*3	1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1
Perfluorotridecanoic acid	<1.6	*3	1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1
Perfluorotetradecanoic acid	<1.6	*3	1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1
Perfluorooctanesulfonic acid	**14**		1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1
NEtFOSAA	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1
NMeFOSAA	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1
Perfluoroundecanoic acid	<1.6	*3	1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1
Perfluorododecanoic acid	<1.6	*3	1.6		ng/L		08/31/21 05:11	09/03/21 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:22*	*1*
13C2 PFDA	*156*	*S1+ *3*	*70 - 130*	*08/31/21 05:11*	*09/03/21 06:22*	*1*
13C2 PFHxA	*135*	*S1+ *3*	*70 - 130*	*08/31/21 05:11*	*09/03/21 06:22*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**540**		16		ng/L		08/31/21 05:11	09/04/21 01:51	10
Perfluorobutanesulfonic acid	**120**		16		ng/L		08/31/21 05:11	09/04/21 01:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*08/31/21 05:11*	*09/04/21 01:51*	*10*
13C2 PFDA	*95*		*70 - 130*	*08/31/21 05:11*	*09/04/21 01:51*	*10*
13C2 PFHxA	*96*		*70 - 130*	*08/31/21 05:11*	*09/04/21 01:51*	*10*

Client Sample ID: QO-0821-INF

Date Collected: 08/25/21 11:50
Date Received: 08/27/21 10:56

Lab Sample ID: 410-53024-4

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	1200		160		ng/L		08/31/21 05:11	09/04/21 02:03	100
Perfluorohexanesulfonic acid	1200		160		ng/L		08/31/21 05:11	09/04/21 02:03	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*08/31/21 05:11*	*09/04/21 02:03*	*100*
13C2 PFDA	*80*		*70 - 130*	*08/31/21 05:11*	*09/04/21 02:03*	*100*
13C2 PFHxA	*80*		*70 - 130*	*08/31/21 05:11*	*09/04/21 02:03*	*100*

Client Sample ID: FB-082521-2

Date Collected: 08/25/21 12:50
Date Received: 08/27/21 10:56

Lab Sample ID: 410-53024-5

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
NEtFOSAA	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
NMeFOSAA	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:34*	*1*
13C2 PFDA	*95*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:34*	*1*
13C2 PFHxA	*101*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:34*	*1*

Client Sample ID: NU-0821-EFF

Date Collected: 08/25/21 12:55
Date Received: 08/27/21 10:56

Lab Sample ID: 410-53024-6

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluorononanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
NEtFOSAA	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1

Client Sample ID: NU-0821-EFF

Lab Sample ID: 410-53024-6

Date Collected: 08/25/21 12:55

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		08/31/21 05:11	09/03/21 06:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:57*	*1*
13C2 PFDA	*92*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:57*	*1*
13C2 PFHxA	*96*		*70 - 130*	*08/31/21 05:11*	*09/03/21 06:57*	*1*

Client Sample ID: NU-0821-MID

Lab Sample ID: 410-53024-7

Date Collected: 08/25/21 13:00

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
NEtFOSAA	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
NMeFOSAA	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/31/21 05:11	09/03/21 07:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*103*		*70 - 130*	*08/31/21 05:11*	*09/03/21 07:08*	*1*
13C2 PFDA	*98*		*70 - 130*	*08/31/21 05:11*	*09/03/21 07:08*	*1*
13C2 PFHxA	*96*		*70 - 130*	*08/31/21 05:11*	*09/03/21 07:08*	*1*

Client Sample ID: NU-0821-INF

Lab Sample ID: 410-53024-8

Date Collected: 08/25/21 13:05

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**4.1**		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluorohexanesulfonic acid	**11**		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1

Client Sample ID: NU-0821-INF

Lab Sample ID: 410-53024-8

Date Collected: 08/25/21 13:05

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
NMeFOSAA	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/31/21 05:11	09/03/21 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*08/31/21 05:11*	*09/03/21 07:20*	*1*
13C2 PFDA	*101*		*70 - 130*	*08/31/21 05:11*	*09/03/21 07:20*	*1*
13C2 PFHxA	*99*		*70 - 130*	*08/31/21 05:11*	*09/03/21 07:20*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 410-53024-9

Date Collected: 08/25/21 00:00

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluorononanoic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
NEtFOSAA	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
NMeFOSAA	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		09/07/21 09:21	09/08/21 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*78*		*70 - 130*	*09/07/21 09:21*	*09/08/21 22:22*	*1*
13C2 PFDA	*91*		*70 - 130*	*09/07/21 09:21*	*09/08/21 22:22*	*1*
13C2 PFHxA	*100*		*70 - 130*	*09/07/21 09:21*	*09/08/21 22:22*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-53024-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-53024-1	JQ-BFCT-082521	105	105	106
410-53024-2	QO-0821-EFF	100	105	108
410-53024-3	QO-0821-MID	97	98	105
410-53024-4	QO-0821-INF	91	156 S1+ *3	135 S1+ *3
410-53024-4 - DL	QO-0821-INF	89	95	96
410-53024-4 - DL2	QO-0821-INF	85	80	80
410-53024-5	FB-082521-2	96	95	101
410-53024-6	NU-0821-EFF	89	92	96
410-53024-7	NU-0821-MID	103	98	96
410-53024-8	NU-0821-INF	95	101	99
410-53024-9	Trip Blank	78	91	100
LCS 410-166244/2-A	Lab Control Sample	100	101	104
LCS 410-168412/2-A	Lab Control Sample	99	103	107
LCSD 410-166244/3-A	Lab Control Sample Dup	94	104	104
LCSD 410-168412/3-A	Lab Control Sample Dup	99	104	101
MB 410-166244/1-A	Method Blank	95	101	105
MB 410-168412/1-A	Method Blank	104	102	99

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-166244/1-A
Matrix: Drinking Water
Analysis Batch: 167522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluorononanoic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
NEtFOSAA	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
NMeFOSAA	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		08/31/21 05:11	09/03/21 04:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*08/31/21 05:11*	*09/03/21 04:04*	*1*
13C2 PFDA	*101*		*70 - 130*	*08/31/21 05:11*	*09/03/21 04:04*	*1*
13C2 PFHxA	*105*		*70 - 130*	*08/31/21 05:11*	*09/03/21 04:04*	*1*

Lab Sample ID: LCS 410-166244/2-A
Matrix: Drinking Water
Analysis Batch: 167522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 166244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	80.0	81.8	E	ng/L		102	70 - 130
Perfluoroheptanoic acid	80.0	79.5		ng/L		99	70 - 130
Perfluorooctanoic acid	80.0	78.1		ng/L		98	70 - 130
Perfluorononanoic acid	80.0	80.8	E	ng/L		101	70 - 130
Perfluorodecanoic acid	80.0	79.1		ng/L		99	70 - 130
Perfluorotridecanoic acid	80.0	74.6		ng/L		93	70 - 130
Perfluorotetradecanoic acid	80.0	75.9		ng/L		95	70 - 130
Perfluorobutanesulfonic acid	70.8	79.0	E	ng/L		112	70 - 130
Perfluorohexanesulfonic acid	73.0	80.7	E	ng/L		111	70 - 130
Perfluorooctanesulfonic acid	74.0	80.0	E	ng/L		108	70 - 130
NEtFOSAA	80.0	80.3	E	ng/L		100	70 - 130
NMeFOSAA	80.0	80.5	E	ng/L		101	70 - 130
Perfluoroundecanoic acid	80.0	79.4		ng/L		99	70 - 130
Perfluorododecanoic acid	80.0	75.8		ng/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*100*		*70 - 130*
13C2 PFDA	*101*		*70 - 130*
13C2 PFHxA	*104*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-166244/3-A
Matrix: Drinking Water
Analysis Batch: 167522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 166244

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	83.0	E	ng/L		104	70 - 130	1	30
Perfluoroheptanoic acid			80.0	83.2	E	ng/L		104	70 - 130	5	30
Perfluorooctanoic acid			80.0	80.9	E	ng/L		101	70 - 130	4	30
Perfluorononanoic acid			80.0	79.5		ng/L		99	70 - 130	2	30
Perfluorodecanoic acid			80.0	84.4	E	ng/L		106	70 - 130	6	30
Perfluorotridecanoic acid			80.0	81.2	E	ng/L		101	70 - 130	8	30
Perfluorotetradecanoic acid			80.0	81.5	E	ng/L		102	70 - 130	7	30
Perfluorobutanesulfonic acid			70.8	76.6	E	ng/L		108	70 - 130	3	30
Perfluorohexanesulfonic acid			73.0	78.7	E	ng/L		108	70 - 130	3	30
Perfluorooctanesulfonic acid			74.0	82.5	E	ng/L		111	70 - 130	3	30
NEtFOSAA			80.0	75.7		ng/L		95	70 - 130	6	30
NMeFOSAA			80.0	77.6		ng/L		97	70 - 130	4	30
Perfluoroundecanoic acid			80.0	80.8	E	ng/L		101	70 - 130	2	30
Perfluorododecanoic acid			80.0	79.4		ng/L		99	70 - 130	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*94*		*70 - 130*
13C2 PFDA	*104*		*70 - 130*
13C2 PFHxA	*104*		*70 - 130*

Lab Sample ID: MB 410-168412/1-A
Matrix: Drinking Water
Analysis Batch: 169067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluorononanoic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
NEtFOSAA	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
NMeFOSAA	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		09/07/21 09:21	09/08/21 21:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*104*		*70 - 130*	*09/07/21 09:21*	*09/08/21 21:36*	*1*
13C2 PFDA	*102*		*70 - 130*	*09/07/21 09:21*	*09/08/21 21:36*	*1*
13C2 PFHxA	*99*		*70 - 130*	*09/07/21 09:21*	*09/08/21 21:36*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCS 410-168412/2-A
Matrix: Drinking Water
Analysis Batch: 169067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	80.0	79.0		ng/L		99	70 - 130
Perfluoroheptanoic acid	80.0	77.8		ng/L		97	70 - 130
Perfluorooctanoic acid	80.0	77.3		ng/L		97	70 - 130
Perfluorononanoic acid	80.0	75.1		ng/L		94	70 - 130
Perfluorodecanoic acid	80.0	81.9	E	ng/L		102	70 - 130
Perfluorotridecanoic acid	80.0	75.5		ng/L		94	70 - 130
Perfluorotetradecanoic acid	80.0	73.5		ng/L		92	70 - 130
Perfluorobutanesulfonic acid	70.8	61.0		ng/L		86	70 - 130
Perfluorohexanesulfonic acid	73.0	74.1	E	ng/L		102	70 - 130
Perfluorooctanesulfonic acid	74.0	73.3		ng/L		99	70 - 130
NEtFOSAA	80.0	78.1		ng/L		98	70 - 130
NMeFOSAA	80.0	80.7	E	ng/L		101	70 - 130
Perfluoroundecanoic acid	80.0	74.1		ng/L		93	70 - 130
Perfluorododecanoic acid	80.0	77.9		ng/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*99*		*70 - 130*
13C2 PFDA	*103*		*70 - 130*
13C2 PFHxA	*107*		*70 - 130*

Lab Sample ID: LCSD 410-168412/3-A
Matrix: Drinking Water
Analysis Batch: 169067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 168412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	80.0	73.7		ng/L		92	70 - 130	7	30
Perfluoroheptanoic acid	80.0	77.8		ng/L		97	70 - 130	0	30
Perfluorooctanoic acid	80.0	77.5		ng/L		97	70 - 130	0	30
Perfluorononanoic acid	80.0	78.1		ng/L		98	70 - 130	4	30
Perfluorodecanoic acid	80.0	85.4	E	ng/L		107	70 - 130	4	30
Perfluorotridecanoic acid	80.0	73.9		ng/L		92	70 - 130	2	30
Perfluorotetradecanoic acid	80.0	73.3		ng/L		92	70 - 130	0	30
Perfluorobutanesulfonic acid	70.8	55.4		ng/L		78	70 - 130	10	30
Perfluorohexanesulfonic acid	73.0	75.4	E	ng/L		103	70 - 130	2	30
Perfluorooctanesulfonic acid	74.0	74.7	E	ng/L		101	70 - 130	2	30
NEtFOSAA	80.0	79.4		ng/L		99	70 - 130	2	30
NMeFOSAA	80.0	82.6	E	ng/L		103	70 - 130	2	30
Perfluoroundecanoic acid	80.0	75.6		ng/L		94	70 - 130	2	30
Perfluorododecanoic acid	80.0	76.6		ng/L		96	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*99*		*70 - 130*
13C2 PFDA	*104*		*70 - 130*
13C2 PFHxA	*101*		*70 - 130*

LCMS

Prep Batch: 166244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53024-1	JQ-BFCT-082521	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-2	QO-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-3	QO-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-4 - RA	QO-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-4	QO-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-4 - DL	QO-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-4 - DL2	QO-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-5	FB-082521-2	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-6	NU-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-7	NU-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-53024-8	NU-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-166244/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-166244/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-166244/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 167522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53024-1	JQ-BFCT-082521	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
410-53024-2	QO-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
410-53024-3	QO-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
410-53024-4	QO-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
410-53024-5	FB-082521-2	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
410-53024-6	NU-0821-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
410-53024-7	NU-0821-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
410-53024-8	NU-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
MB 410-166244/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
LCS 410-166244/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
LCSD 410-166244/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244

Analysis Batch: 167901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53024-4 - RA	QO-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
410-53024-4 - DL	QO-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244
410-53024-4 - DL2	QO-0821-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	166244

Prep Batch: 168412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53024-9	Trip Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-168412/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-168412/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-168412/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 169067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-53024-9	Trip Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	168412
MB 410-168412/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	168412
LCS 410-168412/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	168412
LCSD 410-168412/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	168412

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-53024-1

Client Sample ID: JQ-BFCT-082521
Lab Sample ID: 410-53024-1
Date Collected: 08/25/21 11:20
Matrix: Drinking Water
Date Received: 08/27/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 05:48	DCS9	ELLE

Client Sample ID: QO-0821-EFF
Lab Sample ID: 410-53024-2
Date Collected: 08/25/21 11:40
Matrix: Drinking Water
Date Received: 08/27/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 05:59	DCS9	ELLE

Client Sample ID: QO-0821-MID
Lab Sample ID: 410-53024-3
Date Collected: 08/25/21 11:45
Matrix: Drinking Water
Date Received: 08/27/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 06:11	DCS9	ELLE

Client Sample ID: QO-0821-INF
Lab Sample ID: 410-53024-4
Date Collected: 08/25/21 11:50
Matrix: Drinking Water
Date Received: 08/27/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 06:22	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	RA		166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	RA	1	167901	09/04/21 00:54	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	167901	09/04/21 01:51	Y6ZN	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	167901	09/04/21 02:03	Y6ZN	ELLE

Client Sample ID: FB-082521-2
Lab Sample ID: 410-53024-5
Date Collected: 08/25/21 12:50
Matrix: Drinking Water
Date Received: 08/27/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 06:34	DCS9	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-53024-1

Client Sample ID: NU-0821-EFF

Lab Sample ID: 410-53024-6

Date Collected: 08/25/21 12:55

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 06:57	DCS9	ELLE

Client Sample ID: NU-0821-MID

Lab Sample ID: 410-53024-7

Date Collected: 08/25/21 13:00

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 07:08	DCS9	ELLE

Client Sample ID: NU-0821-INF

Lab Sample ID: 410-53024-8

Date Collected: 08/25/21 13:05

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			166244	08/31/21 05:11	GK2L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	167522	09/03/21 07:20	DCS9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-53024-9

Date Collected: 08/25/21 00:00

Matrix: Drinking Water

Date Received: 08/27/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			168412	09/07/21 09:21	S7AC	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	169067	09/08/21 22:22	Y6ZN	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-53024-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-53024-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-53024-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-53024-1	JQ-BFCT-082521	Drinking Water	08/25/21 11:20	08/27/21 10:56
410-53024-2	QO-0821-EFF	Drinking Water	08/25/21 11:40	08/27/21 10:56
410-53024-3	QO-0821-MID	Drinking Water	08/25/21 11:45	08/27/21 10:56
410-53024-4	QO-0821-INF	Drinking Water	08/25/21 11:50	08/27/21 10:56
410-53024-5	FB-082521-2	Drinking Water	08/25/21 12:50	08/27/21 10:56
410-53024-6	NU-0821-EFF	Drinking Water	08/25/21 12:55	08/27/21 10:56
410-53024-7	NU-0821-MID	Drinking Water	08/25/21 13:00	08/27/21 10:56
410-53024-8	NU-0821-INF	Drinking Water	08/25/21 13:05	08/27/21 10:56
410-53024-9	Trip Blank	Drinking Water	08/25/21 00:00	08/27/21 10:56

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-53024 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: K. SANTARPIO / M. KENNEY	Lab PM: Zanar, Elizabeth M	COC No: 410-31912-7788.7
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 1 of 4
Company: Weston Solutions, Inc.	PWSID:	Analysis Requested	Job #:
Address: 43 North Main Street	Due Date Requested:		Preservation Codes:
City: Concord	TAT Requested (days): STANDARD		A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No		
Phone: 860 712 2684	PO #: 0102971		
Email: Matthew.Kenney@WestonSolutions.com	WO #:		Other:
Project Name: Nantucket	Project #: 41004986		
Site: NANTUCKET	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
JQ-BFCT-082521	8/25/21	1120	G	Drinking Wate			X			
QO-0821-EFF		1140		Drinking Wate			X			
QO-0821-MID		1145		Drinking Wate			X			
QO-0821-INF		1150		Drinking Wate			X			
FB-082521-2		1250		~~Water~~ DW			X			K. SANTARPIO
NU-0821-EFF		1255		~~Water~~ DW			X			
NU-0821-MID		1300		~~Water~~ DW			X			
NU-0821-INF		1305		~~Water~~ DW			X			
TRIP BLANK		—		Water			X			
				Water						
				Water						

AMK

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/26/21 1300	WESTON	SEALED COOLER		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	8/27/21 1058	BMA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2-6

Ver 06/08/2021

DAR

9/14/2021 NR

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-53024-1

Login Number: 53024
List Number: 1
Creator: Bryan, Debra A

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-53024-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 09/14/2021

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-55513-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
10/6/2021 8:47:42 AM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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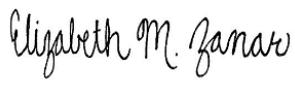

Elizabeth Zanar
Project Manager
10/6/2021 8:47:42 AM

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Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-55513-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
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Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 10/06/2021

Job ID: 410-55513-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-55513-1

Receipt
The samples were received on 9/17/2021 11:51 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°C

PFAS
Method PFC_IDA: The recovery for the labeled isotope(s) in the following sample: SP-10-S-03-04 (410-55513-12) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the labeled isotope(s) is again outside the QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-5-S-01-02 — Lab Sample ID: 410-55513-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.70		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.1		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	2.4		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	4.1		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.5		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	14		2.1	0.64	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	14		3.2	0.64	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-5-S-03-04 — Lab Sample ID: 410-55513-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	1.0		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.3		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.31	J I	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.21	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	22		2.0	0.59	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-6-S-01-02 — Lab Sample ID: 410-55513-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.35	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.33	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-6-S-03-04 — Lab Sample ID: 410-55513-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.46	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.47	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-7-S-01-02 — Lab Sample ID: 410-55513-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.26	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.34	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-7-S-03-04 — Lab Sample ID: 410-55513-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	3.5		0.74	0.25	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.65	J	0.74	0.25	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.36	J	0.74	0.25	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	2.6		0.74	0.25	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-8-S-01-02 — Lab Sample ID: 410-55513-7

No Detections.

Client Sample ID: SP-8-S-03-04 — Lab Sample ID: 410-55513-8

No Detections.

Client Sample ID: SP-9-S-01-02 — Lab Sample ID: 410-55513-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	0.90		0.57	0.19	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: SP-9-S-01-02 (Continued) — Lab Sample ID: 410-55513-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	6.9		0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	0.19	J	0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.9		0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	2.2		1.9	0.57	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanesulfonic acid	0.22	J	0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.20	J	0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	25		0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	1.4	J	2.9	0.57	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-9-S-03-04 — Lab Sample ID: 410-55513-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	0.45	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	4.9		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	0.68		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.3		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	5.6		2.0	0.59	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.55	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	17		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	1.1	J	2.9	0.59	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-10-S-01-02 — Lab Sample ID: 410-55513-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	1.5		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.5		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanesulfonic acid	0.23	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanesulfonic acid (PFDoS)	0.21	J	2.0	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	0.52	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.24	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	2.9		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-10-S-03-04 — Lab Sample ID: 410-55513-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	0.29	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.9		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	0.82		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	1.0	I	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-11-S-01-02 — Lab Sample ID: 410-55513-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.34	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.30	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	16		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorotetradecanoic acid	0.64		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.73		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.1		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.34	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.83		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-11-S-03-04 — Lab Sample ID: 410-55513-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.94		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanesulfonic acid	0.20	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	0.42	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	17		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-12-S-01-02 — Lab Sample ID: 410-55513-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.20	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.20	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	0.85		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.1		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	47		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-12-S-03-04 — Lab Sample ID: 410-55513-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	1.9		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: FB-09152021 — Lab Sample ID: 410-55513-17

No Detections.

Client Sample ID: EB-09152021 — Lab Sample ID: 410-55513-18

No Detections.

Client Sample ID: SP-13-S-01-02 — Lab Sample ID: 410-55513-19

No Detections.

Client Sample ID: SP-13-S-03-04 — Lab Sample ID: 410-55513-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.31	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	2.6		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.31	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.29	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.45	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-14-S-01-02 — Lab Sample ID: 410-55513-21

No Detections.

Client Sample ID: SP-14-S-03-04 — Lab Sample ID: 410-55513-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.22	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-15-S-01-02 — Lab Sample ID: 410-55513-23

No Detections.

Client Sample ID: SP-15-S-03-04 — Lab Sample ID: 410-55513-24

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-5-S-01-02

Date Collected: 09/15/21 11:30
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-1

Matrix: Solid
Percent Solids: 93.2

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.70**		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluoroheptanoic acid	**1.1**		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorooctanoic acid	**2.4**		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorononanoic acid	**4.1**		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorodecanoic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorooctanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
10:2 FTS	<0.64		2.1	0.64	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorobutanoic acid	<0.86		2.1	0.86	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluoropentanoic acid	**1.5**		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
NMeFOSE	<0.54		2.1	0.54	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
NMeFOSA	<0.54		2.1	0.54	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
NEtFOSE	<0.54		2.1	0.54	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
NEtFOSA	<0.54		2.1	0.54	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
HFPODA	<0.43		2.1	0.43	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
DONA	<0.21		3.2	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
6:2 Fluorotelomer sulfonic acid	**14**		2.1	0.64	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1
8:2 Fluorotelomer sulfonic acid	**14**		3.2	0.64	ng/g	☼	09/19/21 16:32	09/22/21 13:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*73*		*10 - 169*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
M2-8:2 FTS	*95*		*10 - 178*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
M2-6:2 FTS	*75*		*10 - 182*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
13C5 PFHxA	*54*		*11 - 138*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
13C4 PFHpA	*58*		*15 - 139*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
13C8 PFOA	*63*		*21 - 133*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
13C9 PFNA	*59*		*15 - 145*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
13C6 PFDA	*63*		*21 - 134*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
13C7 PFUnA	*63*		*15 - 138*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
13C2-PFDoDA	*65*		*28 - 126*	*09/19/21 16:32*	*09/22/21 13:01*	*1*
13C2 PFTeDA	*58*		*10 - 138*	*09/19/21 16:32*	*09/22/21 13:01*	*1*

Client Sample ID: SP-5-S-01-02

Lab Sample ID: 410-55513-1

Date Collected: 09/15/21 11:30
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 93.2

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	96		23 - 130	09/19/21 16:32	09/22/21 13:01	1
13C3 PFHxS	104		24 - 136	09/19/21 16:32	09/22/21 13:01	1
13C8 PFOS	98		31 - 130	09/19/21 16:32	09/22/21 13:01	1
d3-NMeFOSAA	6	*5-	10 - 172	09/19/21 16:32	09/22/21 13:01	1
d5-NEtFOSAA	8	*5-	10 - 176	09/19/21 16:32	09/22/21 13:01	1
13C8 FOSA	116		25 - 135	09/19/21 16:32	09/22/21 13:01	1
13C4 PFBA	47		12 - 137	09/19/21 16:32	09/22/21 13:01	1
13C5 PFPeA	45		12 - 135	09/19/21 16:32	09/22/21 13:01	1
d7-N-MeFOSE-M	120		10 - 152	09/19/21 16:32	09/22/21 13:01	1
d3-NMePFOSA	112		10 - 148	09/19/21 16:32	09/22/21 13:01	1
d9-N-EtFOSE-M	122		10 - 157	09/19/21 16:32	09/22/21 13:01	1
d5-NEtPFOSA	106		10 - 151	09/19/21 16:32	09/22/21 13:01	1
13C3 HFPO-DA	73		10 - 152	09/19/21 16:32	09/22/21 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.8**		1.0	1.0	%			09/20/21 08:54	1

Client Sample ID: SP-5-S-03-04

Lab Sample ID: 410-55513-2

Date Collected: 09/15/21 11:35
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 97.1

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluoroheptanoic acid	**1.0**		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorooctanoic acid	**1.3**		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorononanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorodecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorotridecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorotetradecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorohexanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorooctanesulfonic acid	**0.31**	**J I**	0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
10:2 FTS	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluoropentanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluoroheptanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorononanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorodecanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorooctanesulfonamide	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorohexadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorooctadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorobutanoic acid	<0.79		2.0	0.79	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluoropentanoic acid	**0.21**	**J**	0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1

Client Sample ID: SP-5-S-03-04

Date Collected: 09/15/21 11:35
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-2

Matrix: Solid
Percent Solids: 97.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
HFPODA	<0.40		2.0	0.40	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
DONA	<0.20		3.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
11Cl-PF3OUdS	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluorododecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
4:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
Perfluoroundecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
6:2 Fluorotelomer sulfonic acid	**22**		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1
8:2 Fluorotelomer sulfonic acid	<0.59		3.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 13:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*73*		*10 - 169*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
M2-8:2 FTS	*71*		*10 - 178*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
M2-6:2 FTS	*78*		*10 - 182*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C5 PFHxA	*49*		*11 - 138*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C4 PFHpA	*54*		*15 - 139*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C8 PFOA	*61*		*21 - 133*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C9 PFNA	*53*		*15 - 145*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C6 PFDA	*58*		*21 - 134*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C7 PFUnA	*53*		*15 - 138*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C2-PFDoDA	*54*		*28 - 126*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C2 PFTeDA	*49*		*10 - 138*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C3 PFBS	*98*		*23 - 130*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C3 PFHxS	*97*		*24 - 136*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C8 PFOS	*94*		*31 - 130*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
d3-NMeFOSAA	*9*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
d5-NEtFOSAA	*8*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C8 FOSA	*108*		*25 - 135*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C4 PFBA	*49*		*12 - 137*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C5 PFPeA	*49*		*12 - 135*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
d7-N-MeFOSE-M	*105*		*10 - 152*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
d3-NMePFOSA	*99*		*10 - 148*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
d9-N-EtFOSE-M	*106*		*10 - 157*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
d5-NEtPFOSA	*102*		*10 - 151*	*09/19/21 16:32*	*09/22/21 13:12*	*1*
13C3 HFPO-DA	*60*		*10 - 152*	*09/19/21 16:32*	*09/22/21 13:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.9**		1.0	1.0	%			09/20/21 08:54	1

Client Sample ID: SP-6-S-01-02

Date Collected: 09/15/21 11:55
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-3

Matrix: Solid
Percent Solids: 95.0

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorooctanoic acid	**0.35**	**J**	0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-6-S-01-02

Date Collected: 09/15/21 11:55
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-3

Matrix: Solid
Percent Solids: 95.0

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorobutanesulfonic acid	<0.39		1.9	0.39	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorooctanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluoropentanoic acid	**0.33**	**J**	0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
HFPODA	<0.39		1.9	0.39	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
DONA	<0.19		2.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
Perfluoroundecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 13:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*77*		*10 - 169*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
M2-8:2 FTS	*99*		*10 - 178*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
M2-6:2 FTS	*90*		*10 - 182*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C5 PFHxA	*70*		*11 - 138*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C4 PFHpA	*76*		*15 - 139*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C8 PFOA	*75*		*21 - 133*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C9 PFNA	*76*		*15 - 145*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C6 PFDA	*79*		*21 - 134*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C7 PFUnA	*77*		*15 - 138*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C2-PFDoDA	*76*		*28 - 126*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C2 PFTeDA	*66*		*10 - 138*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C3 PFBS	*115*		*23 - 130*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C3 PFHxS	*109*		*24 - 136*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C8 PFOS	*111*		*31 - 130*	*09/19/21 16:32*	*09/22/21 13:23*	*1*

Client Sample ID: SP-6-S-01-02

Date Collected: 09/15/21 11:55
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-3

Matrix: Solid
Percent Solids: 95.0

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	*4*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C8 FOSA	*122*		*25 - 135*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C4 PFBA	*66*		*12 - 137*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C5 PFPeA	*65*		*12 - 135*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
d7-N-MeFOSE-M	*116*		*10 - 152*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
d3-NMePFOSA	*107*		*10 - 148*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
d9-N-EtFOSE-M	*117*		*10 - 157*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
d5-NEtPFOSA	*104*		*10 - 151*	*09/19/21 16:32*	*09/22/21 13:23*	*1*
13C3 HFPO-DA	*78*		*10 - 152*	*09/19/21 16:32*	*09/22/21 13:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.0**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-6-S-03-04

Date Collected: 09/15/21 12:05
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-4

Matrix: Solid
Percent Solids: 94.2

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluoroheptanoic acid	**0.46**	**J**	0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorooctanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorooctanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorobutanoic acid	<0.82		2.1	0.82	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluoropentanoic acid	**0.47**	**J**	0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
HFPODA	<0.41		2.1	0.41	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1

Client Sample ID: SP-6-S-03-04

Lab Sample ID: 410-55513-4

Date Collected: 09/15/21 12:05
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 94.2

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	<0.21		3.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 13:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*81*		*10 - 169*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
M2-8:2 FTS	*86*		*10 - 178*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
M2-6:2 FTS	*96*		*10 - 182*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C5 PFHxA	*59*		*11 - 138*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C4 PFHpA	*65*		*15 - 139*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C8 PFOA	*68*		*21 - 133*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C9 PFNA	*64*		*15 - 145*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C6 PFDA	*73*		*21 - 134*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C7 PFUnA	*76*		*15 - 138*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C2-PFDoDA	*70*		*28 - 126*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C2 PFTeDA	*65*		*10 - 138*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C3 PFBS	*116*		*23 - 130*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C3 PFHxS	*108*		*24 - 136*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C8 PFOS	*113*		*31 - 130*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
d3-NMeFOSAA	*7*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
d5-NEtFOSAA	*9*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C8 FOSA	*128*		*25 - 135*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C4 PFBA	*57*		*12 - 137*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C5 PFPeA	*55*		*12 - 135*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
d7-N-MeFOSE-M	*124*		*10 - 152*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
d3-NMePFOSA	*121*		*10 - 148*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
d9-N-EtFOSE-M	*134*		*10 - 157*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
d5-NEtPFOSA	*122*		*10 - 151*	*09/19/21 16:32*	*09/22/21 13:34*	*1*
13C3 HFPO-DA	*72*		*10 - 152*	*09/19/21 16:32*	*09/22/21 13:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.8**		1.0	1.0	%			09/20/21 08:54	1

Client Sample ID: SP-7-S-01-02

Lab Sample ID: 410-55513-5

Date Collected: 09/15/21 12:40
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 93.8

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluoroheptanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorooctanoic acid	**0.26**	**J**	0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorononanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorodecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorotridecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1

Client Sample ID: SP-7-S-01-02

Date Collected: 09/15/21 12:40
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-5

Matrix: Solid
Percent Solids: 93.8

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorohexanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorooctanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
10:2 FTS	<0.63		2.1	0.63	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorobutanoic acid	<0.84		2.1	0.84	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluoropentanoic acid	**0.34**	**J**	0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
DONA	<0.21		3.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
Perfluoroundecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
6:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1
8:2 Fluorotelomer sulfonic acid	<0.63		3.1	0.63	ng/g	☼	09/19/21 16:32	09/22/21 13:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*89*		*10 - 169*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
M2-8:2 FTS	*109*		*10 - 178*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
M2-6:2 FTS	*104*		*10 - 182*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C5 PFHxA	*74*		*11 - 138*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C4 PFHpA	*86*		*15 - 139*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C8 PFOA	*86*		*21 - 133*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C9 PFNA	*87*		*15 - 145*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C6 PFDA	*92*		*21 - 134*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C7 PFUnA	*81*		*15 - 138*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C2-PFDoDA	*86*		*28 - 126*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C2 PFTeDA	*84*		*10 - 138*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C3 PFBS	*105*		*23 - 130*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C3 PFHxS	*111*		*24 - 136*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C8 PFOS	*115*		*31 - 130*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 13:45*	*1*
13C8 FOSA	*115*		*25 - 135*	*09/19/21 16:32*	*09/22/21 13:45*	*1*

Client Sample ID: SP-7-S-01-02

Lab Sample ID: 410-55513-5

Date Collected: 09/15/21 12:40
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 93.8

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	70		12 - 137	09/19/21 16:32	09/22/21 13:45	1
13C5 PFPeA	69		12 - 135	09/19/21 16:32	09/22/21 13:45	1
d7-N-MeFOSE-M	115		10 - 152	09/19/21 16:32	09/22/21 13:45	1
d3-NMePFOSA	106		10 - 148	09/19/21 16:32	09/22/21 13:45	1
d9-N-EtFOSE-M	116		10 - 157	09/19/21 16:32	09/22/21 13:45	1
d5-NEtPFOSA	103		10 - 151	09/19/21 16:32	09/22/21 13:45	1
13C3 HFPO-DA	77		10 - 152	09/19/21 16:32	09/22/21 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.2**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-7-S-03-04

Lab Sample ID: 410-55513-6

Date Collected: 09/15/21 12:50
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 81.3

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluoroheptanoic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorooctanoic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorononanoic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorodecanoic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorotridecanoic acid	**3.5**		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorotetradecanoic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorobutanesulfonic acid	<0.49		2.5	0.49	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorohexanesulfonic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorooctanesulfonic acid	**0.65**	**J**	0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
NEtFOSAA	<0.25		2.5	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
NMeFOSAA	<0.25		2.5	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
10:2 FTS	<0.74		2.5	0.74	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluoropentanesulfonic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluoroheptanesulfonic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorononanesulfonic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorodecanesulfonic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.25		2.5	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorooctanesulfonamide	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorohexadecanoic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorooctadecanoic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluorobutanoic acid	<0.98		2.5	0.98	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluoropentanoic acid	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
NMeFOSE	<0.62		2.5	0.62	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
NMeFOSA	<0.62		2.5	0.62	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
NEtFOSE	<0.62		2.5	0.62	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
NEtFOSA	<0.62		2.5	0.62	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
HFPODA	<0.49		2.5	0.49	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
DONA	<0.25		3.7	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
9Cl-PF3ONS	<0.25		2.5	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
11Cl-PF3OUdS	<0.25		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1

Client Sample ID: SP-7-S-03-04

Lab Sample ID: 410-55513-6

Date Collected: 09/15/21 12:50
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 81.3

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	**0.36**	**J**	0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
4:2 Fluorotelomer sulfonic acid	<0.74		2.5	0.74	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
Perfluoroundecanoic acid	**2.6**		0.74	0.25	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
6:2 Fluorotelomer sulfonic acid	<0.74		2.5	0.74	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1
8:2 Fluorotelomer sulfonic acid	<0.74		3.7	0.74	ng/g	☼	09/19/21 16:32	09/22/21 13:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*125*		*10 - 169*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
M2-8:2 FTS	*124*		*10 - 178*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
M2-6:2 FTS	*135*		*10 - 182*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C5 PFHxA	*97*		*11 - 138*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C4 PFHpA	*103*		*15 - 139*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C8 PFOA	*106*		*21 - 133*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C9 PFNA	*91*		*15 - 145*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C6 PFDA	*112*		*21 - 134*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C7 PFUnA	*104*		*15 - 138*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C2-PFDoDA	*100*		*28 - 126*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C2 PFTeDA	*96*		*10 - 138*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C3 PFBS	*120*		*23 - 130*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C3 PFHxS	*115*		*24 - 136*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C8 PFOS	*113*		*31 - 130*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
d3-NMeFOSAA	*49*		*10 - 172*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
d5-NEtFOSAA	*61*		*10 - 176*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C8 FOSA	*112*		*25 - 135*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C4 PFBA	*92*		*12 - 137*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C5 PFPeA	*89*		*12 - 135*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
d7-N-MeFOSE-M	*104*		*10 - 152*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
d3-NMePFOSA	*95*		*10 - 148*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
d9-N-EtFOSE-M	*112*		*10 - 157*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
d5-NEtPFOSA	*96*		*10 - 151*	*09/19/21 16:32*	*09/22/21 13:56*	*1*
13C3 HFPO-DA	*93*		*10 - 152*	*09/19/21 16:32*	*09/22/21 13:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.7**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-8-S-01-02

Lab Sample ID: 410-55513-7

Date Collected: 09/15/21 13:05
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 90.9

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluoroheptanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorooctanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1

Client Sample ID: SP-8-S-01-02
Date Collected: 09/15/21 13:05
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-7
Matrix: Solid
Percent Solids: 90.9

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorobutanoic acid	<0.82		2.1	0.82	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluoropentanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
NMeFOSE	<0.51		2.1	0.51	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
NMeFOSA	<0.51		2.1	0.51	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
NEtFOSE	<0.51		2.1	0.51	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
NEtFOSA	<0.51		2.1	0.51	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
HFPODA	<0.41		2.1	0.41	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
DONA	<0.21		3.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 14:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*56*		*10 - 169*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
M2-8:2 FTS	*66*		*10 - 178*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
M2-6:2 FTS	*67*		*10 - 182*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C5 PFHxA	*49*		*11 - 138*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C4 PFHpA	*50*		*15 - 139*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C8 PFOA	*51*		*21 - 133*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C9 PFNA	*45*		*15 - 145*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C6 PFDA	*57*		*21 - 134*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C7 PFUnA	*53*		*15 - 138*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C2-PFDoDA	*56*		*28 - 126*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C2 PFTeDA	*51*		*10 - 138*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C3 PFBS	*84*		*23 - 130*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C3 PFHxS	*88*		*24 - 136*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C8 PFOS	*89*		*31 - 130*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
d3-NMeFOSAA	*8*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
d5-NEtFOSAA	*8*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C8 FOSA	*114*		*25 - 135*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C4 PFBA	*41*		*12 - 137*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
13C5 PFPeA	*42*		*12 - 135*	*09/19/21 16:32*	*09/22/21 14:07*	*1*
d7-N-MeFOSE-M	*115*		*10 - 152*	*09/19/21 16:32*	*09/22/21 14:07*	*1*

Client Sample ID: SP-8-S-01-02

Lab Sample ID: 410-55513-7

Date Collected: 09/15/21 13:05
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 90.9

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	111		10 - 148	09/19/21 16:32	09/22/21 14:07	1
d9-N-EtFOSE-M	123		10 - 157	09/19/21 16:32	09/22/21 14:07	1
d5-NEtPFOSA	108		10 - 151	09/19/21 16:32	09/22/21 14:07	1
13C3 HFPO-DA	49		10 - 152	09/19/21 16:32	09/22/21 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		1.0	1.0	%			09/20/21 08:54	1

Client Sample ID: SP-8-S-03-04

Lab Sample ID: 410-55513-8

Date Collected: 09/15/21 13:15
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 91.7

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluoroheptanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorooctanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorooctanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluoropentanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
DONA	<0.21		3.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1

Client Sample ID: SP-8-S-03-04

Date Collected: 09/15/21 13:15
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-8

Matrix: Solid
Percent Solids: 91.7

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 14:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*57*		*10 - 169*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
M2-8:2 FTS	*71*		*10 - 178*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
M2-6:2 FTS	*62*		*10 - 182*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C5 PFHxA	*42*		*11 - 138*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C4 PFHpA	*45*		*15 - 139*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C8 PFOA	*48*		*21 - 133*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C9 PFNA	*44*		*15 - 145*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C6 PFDA	*53*		*21 - 134*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C7 PFUnA	*47*		*15 - 138*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C2-PFDoDA	*50*		*28 - 126*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C2 PFTeDA	*51*		*10 - 138*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C3 PFBS	*72*		*23 - 130*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C3 PFHxS	*77*		*24 - 136*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C8 PFOS	*74*		*31 - 130*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
d5-NEtFOSAA	*6*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C8 FOSA	*86*		*25 - 135*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C4 PFBA	*38*		*12 - 137*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C5 PFPeA	*42*		*12 - 135*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
d7-N-MeFOSE-M	*79*		*10 - 152*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
d3-NMePFOSA	*71*		*10 - 148*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
d9-N-EtFOSE-M	*82*		*10 - 157*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
d5-NEtPFOSA	*69*		*10 - 151*	*09/19/21 16:32*	*09/22/21 14:18*	*1*
13C3 HFPO-DA	*48*		*10 - 152*	*09/19/21 16:32*	*09/22/21 14:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		1.0	1.0	%			09/20/21 08:54	1

Client Sample ID: SP-9-S-01-02

Date Collected: 09/15/21 13:30
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-9

Matrix: Solid
Percent Solids: 98.3

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluoroheptanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorooctanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorononanoic acid	**0.90**		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorodecanoic acid	**6.9**		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorotridecanoic acid	**0.19**	**J**	0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorotetradecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorohexanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorooctanesulfonic acid	**1.9**		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1

Client Sample ID: SP-9-S-01-02
Date Collected: 09/15/21 13:30
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-9
Matrix: Solid
Percent Solids: 98.3

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	**2.2**		1.9	0.57	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluoropentanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluoroheptanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorononanesulfonic acid	**0.22**	**J**	0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorodecanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorooctanesulfonamide	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorohexadecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorooctadecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorobutanoic acid	<0.76		1.9	0.76	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluoropentanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
HFPODA	<0.38		1.9	0.38	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
DONA	<0.19		2.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
11Cl-PF3OUdS	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluorododecanoic acid	**0.20**	**J**	0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
4:2 Fluorotelomer sulfonic acid	<0.57		1.9	0.57	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
Perfluoroundecanoic acid	**25**		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
6:2 Fluorotelomer sulfonic acid	<0.57		1.9	0.57	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1
8:2 Fluorotelomer sulfonic acid	**1.4**	**J**	2.9	0.57	ng/g	☼	09/19/21 16:32	09/22/21 14:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 169*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
M2-8:2 FTS	*122*		*10 - 178*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
M2-6:2 FTS	*111*		*10 - 182*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C5 PFHxA	*79*		*11 - 138*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C4 PFHpA	*84*		*15 - 139*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C8 PFOA	*87*		*21 - 133*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C9 PFNA	*76*		*15 - 145*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C6 PFDA	*90*		*21 - 134*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C7 PFUnA	*78*		*15 - 138*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C2-PFDoDA	*80*		*28 - 126*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C2 PFTeDA	*80*		*10 - 138*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C3 PFBS	*105*		*23 - 130*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C3 PFHxS	*104*		*24 - 136*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C8 PFOS	*98*		*31 - 130*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
d3-NMeFOSAA	*10*		*10 - 172*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
d5-NEtFOSAA	*11*		*10 - 176*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C8 FOSA	*107*		*25 - 135*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C4 PFBA	*78*		*12 - 137*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
13C5 PFPeA	*78*		*12 - 135*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
d7-N-MeFOSE-M	*105*		*10 - 152*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
d3-NMePFOSA	*98*		*10 - 148*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
d9-N-EtFOSE-M	*103*		*10 - 157*	*09/19/21 16:32*	*09/22/21 14:29*	*1*
d5-NEtPFOSA	*98*		*10 - 151*	*09/19/21 16:32*	*09/22/21 14:29*	*1*

Client Sample ID: SP-9-S-01-02

Lab Sample ID: 410-55513-9
Date Collected: 09/15/21 13:30
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 98.3

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*76*		*10 - 152*	*09/19/21 16:32*	*09/22/21 14:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**1.7**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-9-S-03-04

Lab Sample ID: 410-55513-10
Date Collected: 09/15/21 13:40
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 96.0

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluoroheptanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorooctanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorononanoic acid	**0.45**	**J**	0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorodecanoic acid	**4.9**		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorotridecanoic acid	**0.68**		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorotetradecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorobutanesulfonic acid	<0.39		2.0	0.39	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorohexanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorooctanesulfonic acid	**1.3**		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
10:2 FTS	**5.6**		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluoropentanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluoroheptanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorononanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorodecanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorooctanesulfonamide	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorohexadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorooctadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorobutanoic acid	<0.79		2.0	0.79	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluoropentanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
NMeFOSE	<0.49		2.0	0.49	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
NMeFOSA	<0.49		2.0	0.49	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
NEtFOSE	<0.49		2.0	0.49	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
NEtFOSA	<0.49		2.0	0.49	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
HFPODA	<0.39		2.0	0.39	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
DONA	<0.20		2.9	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
11Cl-PF3OUdS	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluorododecanoic acid	**0.55**	**J**	0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
4:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
Perfluoroundecanoic acid	**17**		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
6:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1
8:2 Fluorotelomer sulfonic acid	**1.1**	**J**	2.9	0.59	ng/g	☼	09/19/21 16:32	09/22/21 14:40	1

Client Sample ID: SP-9-S-03-04

Lab Sample ID: 410-55513-10

Date Collected: 09/15/21 13:40

Matrix: Solid

Date Received: 09/17/21 11:51

Percent Solids: 96.0

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 169*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
M2-8:2 FTS	*117*		*10 - 178*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
M2-6:2 FTS	*114*		*10 - 182*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C5 PFHxA	*85*		*11 - 138*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C4 PFHpA	*87*		*15 - 139*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C8 PFOA	*90*		*21 - 133*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C9 PFNA	*84*		*15 - 145*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C6 PFDA	*99*		*21 - 134*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C7 PFUnA	*84*		*15 - 138*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C2-PFDoDA	*85*		*28 - 126*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C2 PFTeDA	*89*		*10 - 138*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C3 PFBS	*114*		*23 - 130*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C3 PFHxS	*110*		*24 - 136*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C8 PFOS	*114*		*31 - 130*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
d3-NMeFOSAA	*8*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
d5-NEtFOSAA	*11*		*10 - 176*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C8 FOSA	*107*		*25 - 135*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C4 PFBA	*83*		*12 - 137*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C5 PFPeA	*82*		*12 - 135*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
d7-N-MeFOSE-M	*105*		*10 - 152*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
d3-NMePFOSA	*100*		*10 - 148*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
d9-N-EtFOSE-M	*110*		*10 - 157*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
d5-NEtPFOSA	*97*		*10 - 151*	*09/19/21 16:32*	*09/22/21 14:40*	*1*
13C3 HFPO-DA	*91*		*10 - 152*	*09/19/21 16:32*	*09/22/21 14:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.0**		1.0	1.0	%			09/20/21 08:54	1

Client Sample ID: SP-10-S-01-02

Lab Sample ID: 410-55513-11

Date Collected: 09/15/21 13:55

Matrix: Solid

Date Received: 09/17/21 11:51

Percent Solids: 94.7

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorotridecanoic acid	**1.5**		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorooctanesulfonic acid	**1.5**		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
10:2 FTS	<0.60		2.0	0.60	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorononanesulfonic acid	**0.23**	**J**	0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1

Client Sample ID: SP-10-S-01-02

Date Collected: 09/15/21 13:55
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-11

Matrix: Solid
Percent Solids: 94.7

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorododecanesulfonic acid (PFDoS)	**0.21**	**J**	2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorooctanesulfonamide	**0.52**	**J**	0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
HFPODA	<0.40		2.0	0.40	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
DONA	<0.20		3.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluorododecanoic acid	**0.24**	**J**	0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
Perfluoroundecanoic acid	**2.9**		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g	☼	09/19/21 16:32	09/22/21 15:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*87*		*10 - 169*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
M2-8:2 FTS	*98*		*10 - 178*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
M2-6:2 FTS	*99*		*10 - 182*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C5 PFHxA	*78*		*11 - 138*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C4 PFHpA	*80*		*15 - 139*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C8 PFOA	*88*		*21 - 133*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C9 PFNA	*76*		*15 - 145*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C6 PFDA	*85*		*21 - 134*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C7 PFUnA	*77*		*15 - 138*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C2-PFDoDA	*74*		*28 - 126*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C2 PFTeDA	*68*		*10 - 138*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C3 PFBS	*113*		*23 - 130*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C3 PFHxS	*114*		*24 - 136*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C8 PFOS	*112*		*31 - 130*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
d3-NMeFOSAA	*5*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C8 FOSA	*110*		*25 - 135*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C4 PFBA	*68*		*12 - 137*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C5 PFPeA	*71*		*12 - 135*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
d7-N-MeFOSE-M	*108*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
d3-NMePFOSA	*105*		*10 - 148*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
d9-N-EtFOSE-M	*120*		*10 - 157*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
d5-NEtPFOSA	*104*		*10 - 151*	*09/19/21 16:32*	*09/22/21 15:03*	*1*
13C3 HFPO-DA	*72*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.3**		1.0	1.0	%			09/20/21 08:54	1

Client Sample ID: SP-10-S-03-04

Date Collected: 09/15/21 14:05
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-12

Matrix: Solid
Percent Solids: 97.3

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorooctanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorohexanesulfonic acid	**0.29**	**J**	0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorooctanesulfonic acid	**1.9**		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorooctanesulfonamide	**0.82**		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluoropentanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
HFPODA	<0.38		1.9	0.38	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
DONA	<0.19		2.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
Perfluoroundecanoic acid	**1.0**	**I**	0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	09/27/21 21:55	09/28/21 20:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*78*		*10 - 169*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
M2-8:2 FTS	*86*		*10 - 178*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
M2-6:2 FTS	*89*		*10 - 182*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
13C5 PFHxA	*72*		*11 - 138*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
13C4 PFHpA	*69*		*15 - 139*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
13C8 PFOA	*78*		*21 - 133*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
13C9 PFNA	*71*		*15 - 145*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
13C6 PFDA	*77*		*21 - 134*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
13C7 PFUnA	*79*		*15 - 138*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
13C2-PFDoDA	*77*		*28 - 126*	*09/27/21 21:55*	*09/28/21 20:59*	*1*
13C2 PFTeDA	*73*		*10 - 138*	*09/27/21 21:55*	*09/28/21 20:59*	*1*

Client Sample ID: SP-10-S-03-04

Lab Sample ID: 410-55513-12

Date Collected: 09/15/21 14:05
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 97.3

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	87		23 - 130	09/27/21 21:55	09/28/21 20:59	1
13C3 PFHxS	89		24 - 136	09/27/21 21:55	09/28/21 20:59	1
13C8 PFOS	88		31 - 130	09/27/21 21:55	09/28/21 20:59	1
d3-NMeFOSAA	7	*5-	10 - 172	09/27/21 21:55	09/28/21 20:59	1
d5-NEtFOSAA	10		10 - 176	09/27/21 21:55	09/28/21 20:59	1
13C8 FOSA	91		25 - 135	09/27/21 21:55	09/28/21 20:59	1
13C4 PFBA	65		12 - 137	09/27/21 21:55	09/28/21 20:59	1
13C5 PFPeA	67		12 - 135	09/27/21 21:55	09/28/21 20:59	1
d7-N-MeFOSE-M	90		10 - 152	09/27/21 21:55	09/28/21 20:59	1
d3-NMePFOSA	90		10 - 148	09/27/21 21:55	09/28/21 20:59	1
d9-N-EtFOSE-M	98		10 - 157	09/27/21 21:55	09/28/21 20:59	1
d5-NEtPFOSA	100		10 - 151	09/27/21 21:55	09/28/21 20:59	1
13C3 HFPO-DA	71		10 - 152	09/27/21 21:55	09/28/21 20:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.7**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-11-S-01-02

Lab Sample ID: 410-55513-13

Date Collected: 09/15/21 14:15
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 93.3

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorooctanoic acid	**0.34**	**J**	0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorononanoic acid	**0.30**	**J**	0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorotridecanoic acid	**16**		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorotetradecanoic acid	**0.64**		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorobutanesulfonic acid	<0.39		1.9	0.39	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorohexanesulfonic acid	**0.73**		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorooctanesulfonic acid	**1.1**		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorobutanoic acid	<0.78		1.9	0.78	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluoropentanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
NMeFOSE	<0.49		1.9	0.49	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
NMeFOSA	<0.49		1.9	0.49	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1

Client Sample ID: SP-11-S-01-02

Date Collected: 09/15/21 14:15
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-13

Matrix: Solid
Percent Solids: 93.3

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.49		1.9	0.49	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
NEtFOSA	<0.49		1.9	0.49	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
HFPODA	<0.39		1.9	0.39	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
DONA	<0.19		2.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluorododecanoic acid	**0.34**	**J**	0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
Perfluoroundecanoic acid	**0.83**		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 15:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*105*		*10 - 169*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
M2-8:2 FTS	*153*		*10 - 178*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
M2-6:2 FTS	*131*		*10 - 182*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C5 PFHxA	*89*		*11 - 138*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C4 PFHpA	*97*		*15 - 139*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C8 PFOA	*101*		*21 - 133*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C9 PFNA	*93*		*15 - 145*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C6 PFDA	*107*		*21 - 134*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C7 PFUnA	*95*		*15 - 138*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C2-PFDoDA	*100*		*28 - 126*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C2 PFTeDA	*106*		*10 - 138*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C3 PFBS	*117*		*23 - 130*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C3 PFHxS	*105*		*24 - 136*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C8 PFOS	*105*		*31 - 130*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
d3-NMeFOSAA	*67*		*10 - 172*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
d5-NEtFOSAA	*84*		*10 - 176*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C8 FOSA	*104*		*25 - 135*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C4 PFBA	*92*		*12 - 137*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C5 PFPeA	*93*		*12 - 135*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
d7-N-MeFOSE-M	*98*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
d3-NMePFOSA	*85*		*10 - 148*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
d9-N-EtFOSE-M	*103*		*10 - 157*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
d5-NEtPFOSA	*83*		*10 - 151*	*09/19/21 16:32*	*09/22/21 15:14*	*1*
13C3 HFPO-DA	*85*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.7**		1.0	1.0	%			09/20/21 08:54	1

Client Sample ID: SP-11-S-03-04

Date Collected: 09/15/21 14:25
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-14

Matrix: Solid
Percent Solids: 97.7

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorooctanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-11-S-03-04
Date Collected: 09/15/21 14:25
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-14
Matrix: Solid
Percent Solids: 97.7

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorobutanesulfonic acid	<0.39		1.9	0.39	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorooctanesulfonic acid	**0.94**		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorononanesulfonic acid	**0.20**	**J**	0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorooctanesulfonamide	**0.42**	**J**	0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluoropentanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
HFPODA	<0.39		1.9	0.39	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
DONA	<0.19		2.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
Perfluoroundecanoic acid	**17**		0.58	0.19	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	09/27/21 21:55	09/28/21 21:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 169*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
M2-8:2 FTS	*96*		*10 - 178*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
M2-6:2 FTS	*104*		*10 - 182*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C5 PFHxA	*92*		*11 - 138*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C4 PFHpA	*88*		*15 - 139*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C8 PFOA	*95*		*21 - 133*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C9 PFNA	*92*		*15 - 145*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C6 PFDA	*94*		*21 - 134*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C7 PFUnA	*90*		*15 - 138*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C2-PFDoDA	*89*		*28 - 126*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C2 PFTeDA	*88*		*10 - 138*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C3 PFBS	*93*		*23 - 130*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C3 PFHxS	*96*		*24 - 136*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C8 PFOS	*93*		*31 - 130*	*09/27/21 21:55*	*09/28/21 21:09*	*1*

Client Sample ID: SP-11-S-03-04

Date Collected: 09/15/21 14:25
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-14

Matrix: Solid
Percent Solids: 97.7

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d3-NMeFOSAA	*19*		*10 - 172*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
d5-NEtFOSAA	*24*		*10 - 176*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C8 FOSA	*89*		*25 - 135*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C4 PFBA	*83*		*12 - 137*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C5 PFPeA	*88*		*12 - 135*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
d7-N-MeFOSE-M	*93*		*10 - 152*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
d3-NMePFOSA	*85*		*10 - 148*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
d9-N-EtFOSE-M	*96*		*10 - 157*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
d5-NEtPFOSA	*94*		*10 - 151*	*09/27/21 21:55*	*09/28/21 21:09*	*1*
13C3 HFPO-DA	*84*		*10 - 152*	*09/27/21 21:55*	*09/28/21 21:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.3**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-12-S-01-02

Date Collected: 09/15/21 14:40
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-15

Matrix: Solid
Percent Solids: 94.0

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.20**	**J**	0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorooctanoic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorodecanoic acid	**0.20**	**J**	0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorotridecanoic acid	**0.85**		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorobutanesulfonic acid	<0.39		1.9	0.39	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorooctanesulfonic acid	**1.1**		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluoropentanoic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
HFPODA	<0.39		1.9	0.39	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1

Client Sample ID: SP-12-S-01-02

Lab Sample ID: 410-55513-15

Date Collected: 09/15/21 14:40
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 94.0

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	<0.19		2.9	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
Perfluoroundecanoic acid	**47**		0.58	0.19	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	10/01/21 16:57	10/02/21 12:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*65*		*10 - 169*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
M2-8:2 FTS	*81*		*10 - 178*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
M2-6:2 FTS	*77*		*10 - 182*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C5 PFHxA	*59*		*11 - 138*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C4 PFHpA	*61*		*15 - 139*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C8 PFOA	*68*		*21 - 133*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C9 PFNA	*68*		*15 - 145*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C6 PFDA	*72*		*21 - 134*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C7 PFUnA	*71*		*15 - 138*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C2-PFDoDA	*67*		*28 - 126*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C2 PFTeDA	*63*		*10 - 138*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C3 PFBS	*100*		*23 - 130*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C3 PFHxS	*92*		*24 - 136*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C8 PFOS	*94*		*31 - 130*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
d3-NMeFOSAA	*14*		*10 - 172*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
d5-NEtFOSAA	*20*		*10 - 176*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C8 FOSA	*97*		*25 - 135*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C4 PFBA	*54*		*12 - 137*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C5 PFPeA	*59*		*12 - 135*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
d7-N-MeFOSE-M	*90*		*10 - 152*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
d3-NMePFOSA	*90*		*10 - 148*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
d9-N-EtFOSE-M	*104*		*10 - 157*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
d5-NEtPFOSA	*94*		*10 - 151*	*10/01/21 16:57*	*10/02/21 12:17*	*1*
13C3 HFPO-DA	*73*		*10 - 152*	*10/01/21 16:57*	*10/02/21 12:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.0**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-12-S-03-04

Lab Sample ID: 410-55513-16

Date Collected: 09/15/21 14:50
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 96.5

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluoroheptanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorooctanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorononanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorodecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorotridecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1

Client Sample ID: SP-12-S-03-04
Date Collected: 09/15/21 14:50
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-16
Matrix: Solid
Percent Solids: 96.5

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorobutanesulfonic acid	<0.39		2.0	0.39	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorohexanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorooctanesulfonic acid	**1.9**		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
10:2 FTS	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluoropentanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluoroheptanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorononanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorodecanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorooctanesulfonamide	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorohexadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorooctadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorobutanoic acid	<0.78		2.0	0.78	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluoropentanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
NMeFOSE	<0.49		2.0	0.49	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
NMeFOSA	<0.49		2.0	0.49	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
NEtFOSE	<0.49		2.0	0.49	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
NEtFOSA	<0.49		2.0	0.49	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
HFPODA	<0.39		2.0	0.39	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
DONA	<0.20		2.9	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
11Cl-PF3OUdS	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluorododecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
4:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
Perfluoroundecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
6:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1
8:2 Fluorotelomer sulfonic acid	<0.59		2.9	0.59	ng/g	☼	09/19/21 16:32	09/22/21 15:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*64*		*10 - 169*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
M2-8:2 FTS	*93*		*10 - 178*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
M2-6:2 FTS	*80*		*10 - 182*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C5 PFHxA	*42*		*11 - 138*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C4 PFHpA	*47*		*15 - 139*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C8 PFOA	*49*		*21 - 133*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C9 PFNA	*46*		*15 - 145*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C6 PFDA	*50*		*21 - 134*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C7 PFUnA	*46*		*15 - 138*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C2-PFDoDA	*48*		*28 - 126*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C2 PFTeDA	*54*		*10 - 138*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C3 PFBS	*91*		*23 - 130*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C3 PFHxS	*93*		*24 - 136*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C8 PFOS	*93*		*31 - 130*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
d3-NMeFOSAA	*6*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
d5-NEtFOSAA	*8*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C8 FOSA	*105*		*25 - 135*	*09/19/21 16:32*	*09/22/21 15:25*	*1*

Client Sample ID: SP-12-S-03-04

Lab Sample ID: 410-55513-16

Date Collected: 09/15/21 14:50
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 96.5

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	*38*		*12 - 137*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C5 PFPeA	*41*		*12 - 135*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
d7-N-MeFOSE-M	*117*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
d3-NMePFOSA	*103*		*10 - 148*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
d9-N-EtFOSE-M	*119*		*10 - 157*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
d5-NEtPFOSA	*95*		*10 - 151*	*09/19/21 16:32*	*09/22/21 15:25*	*1*
13C3 HFPO-DA	*62*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.5**		1.0	1.0	%			09/20/21 08:54	1

Client Sample ID: FB-09152021

Lab Sample ID: 410-55513-17

Date Collected: 09/15/21 11:15
Matrix: Water
Date Received: 09/17/21 11:51

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluoroheptanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorooctanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorononanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorodecanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorotridecanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorotetradecanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorobutanesulfonic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorohexanesulfonic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorooctanesulfonic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
NEtFOSAA	<0.41		2.5	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
NMeFOSAA	<0.50		1.7	0.50	ng/L		09/20/21 17:27	09/23/21 05:02	1
10:2 FTS	<0.83		4.1	0.83	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluoropentanesulfonic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluoroheptanesulfonic acid	<0.41	*+	1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorononanesulfonic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorodecanesulfonic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.41		2.5	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorooctanesulfonamide	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorohexadecanoic acid	<0.83		2.5	0.83	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorooctadecanoic acid	<0.83		2.5	0.83	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluorobutanoic acid	<1.7		4.1	1.7	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluoropentanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
NMeFOSE	<0.83		2.5	0.83	ng/L		09/20/21 17:27	09/23/21 05:02	1
NMeFOSA	<0.83		2.5	0.83	ng/L		09/20/21 17:27	09/23/21 05:02	1
NEtFOSE	<0.83		2.5	0.83	ng/L		09/20/21 17:27	09/23/21 05:02	1
NEtFOSA	<0.83		4.1	0.83	ng/L		09/20/21 17:27	09/23/21 05:02	1
HFPODA	<0.41		2.5	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
DONA	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
9Cl-PF3ONS	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
11Cl-PF3OUdS	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1

Client Sample ID: FB-09152021

Lab Sample ID: 410-55513-17

Date Collected: 09/15/21 11:15

Matrix: Water

Date Received: 09/17/21 11:51

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
4:2 Fluorotelomer sulfonic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
Perfluoroundecanoic acid	<0.41		1.7	0.41	ng/L		09/20/21 17:27	09/23/21 05:02	1
6:2 Fluorotelomer sulfonic acid	<1.7		4.1	1.7	ng/L		09/20/21 17:27	09/23/21 05:02	1
8:2 Fluorotelomer sulfonic acid	<0.83		2.5	0.83	ng/L		09/20/21 17:27	09/23/21 05:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*102*		*20 - 187*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
M2-8:2 FTS	*108*		*34 - 182*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
M2-6:2 FTS	*105*		*29 - 189*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C5 PFHxA	*95*		*31 - 142*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C4 PFHpA	*99*		*30 - 144*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C8 PFOA	*99*		*49 - 127*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C9 PFNA	*101*		*47 - 136*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C6 PFDA	*100*		*47 - 128*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C7 PFUnA	*94*		*40 - 135*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C2-PFDoDA	*94*		*28 - 136*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C2 PFTeDA	*100*		*10 - 144*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C3 PFBS	*90*		*19 - 178*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C3 PFHxS	*88*		*32 - 145*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C8 PFOS	*106*		*49 - 126*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
d3-NMeFOSAA	*116*		*32 - 151*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
d5-NEtFOSAA	*120*		*37 - 164*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C8 FOSA	*85*		*10 - 143*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C4 PFBA	*95*		*41 - 132*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C5 PFPeA	*94*		*33 - 155*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
d7-N-MeFOSE-M	*90*		*10 - 143*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
d3-NMePFOSA	*72*		*10 - 107*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
d9-N-EtFOSE-M	*89*		*10 - 142*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
d5-NEtPFOSA	*72*		*10 - 108*	*09/20/21 17:27*	*09/23/21 05:02*	*1*
13C3 HFPO-DA	*95*		*20 - 153*	*09/20/21 17:27*	*09/23/21 05:02*	*1*

Client Sample ID: EB-09152021

Lab Sample ID: 410-55513-18

Date Collected: 09/15/21 14:55

Matrix: Water

Date Received: 09/17/21 11:51

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluoroheptanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorooctanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorononanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorodecanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorotridecanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorotetradecanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorobutanesulfonic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorohexanesulfonic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorooctanesulfonic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
NEtFOSAA	<0.44		2.6	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		09/20/21 17:27	09/23/21 05:14	1
10:2 FTS	<0.87		4.4	0.87	ng/L		09/20/21 17:27	09/23/21 05:14	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: EB-09152021

Date Collected: 09/15/21 14:55
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-18

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluoroheptanesulfonic acid	<0.44	*+	1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorononanesulfonic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorodecanesulfonic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		2.6	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorooctanesulfonamide	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorohexadecanoic acid	<0.87		2.6	0.87	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorooctadecanoic acid	<0.87		2.6	0.87	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorobutanoic acid	<1.7		4.4	1.7	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluoropentanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
NMeFOSE	<0.87		2.6	0.87	ng/L		09/20/21 17:27	09/23/21 05:14	1
NMeFOSA	<0.87		2.6	0.87	ng/L		09/20/21 17:27	09/23/21 05:14	1
NEtFOSE	<0.87		2.6	0.87	ng/L		09/20/21 17:27	09/23/21 05:14	1
NEtFOSA	<0.87		4.4	0.87	ng/L		09/20/21 17:27	09/23/21 05:14	1
HFPODA	<0.44		2.6	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
DONA	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
9Cl-PF3ONS	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
11Cl-PF3OUdS	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluorododecanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
4:2 Fluorotelomer sulfonic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
Perfluoroundecanoic acid	<0.44		1.7	0.44	ng/L		09/20/21 17:27	09/23/21 05:14	1
6:2 Fluorotelomer sulfonic acid	<1.7		4.4	1.7	ng/L		09/20/21 17:27	09/23/21 05:14	1
8:2 Fluorotelomer sulfonic acid	<0.87		2.6	0.87	ng/L		09/20/21 17:27	09/23/21 05:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*20 - 187*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
M2-8:2 FTS	*102*		*34 - 182*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
M2-6:2 FTS	*92*		*29 - 189*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C5 PFHxA	*84*		*31 - 142*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C4 PFHpA	*89*		*30 - 144*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C8 PFOA	*89*		*49 - 127*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C9 PFNA	*98*		*47 - 136*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C6 PFDA	*95*		*47 - 128*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C7 PFUnA	*88*		*40 - 135*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C2-PFDoDA	*89*		*28 - 136*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C2 PFTeDA	*98*		*10 - 144*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C3 PFBS	*85*		*19 - 178*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C3 PFHxS	*81*		*32 - 145*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C8 PFOS	*100*		*49 - 126*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
d3-NMeFOSAA	*116*		*32 - 151*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
d5-NEtFOSAA	*112*		*37 - 164*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C8 FOSA	*82*		*10 - 143*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C4 PFBA	*90*		*41 - 132*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C5 PFPeA	*88*		*33 - 155*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
d7-N-MeFOSE-M	*89*		*10 - 143*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
d3-NMePFOSA	*78*		*10 - 107*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
d9-N-EtFOSE-M	*88*		*10 - 142*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
d5-NEtPFOSA	*77*		*10 - 108*	*09/20/21 17:27*	*09/23/21 05:14*	*1*
13C3 HFPO-DA	*86*		*20 - 153*	*09/20/21 17:27*	*09/23/21 05:14*	*1*

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-13-S-01-02
Date Collected: 09/15/21 15:05
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-19
Matrix: Solid
Percent Solids: 95.7

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluoroheptanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorooctanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorononanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorodecanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorotridecanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorotetradecanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorobutanesulfonic acid	<0.41		2.0	0.41	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorohexanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorooctanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
10:2 FTS	<0.61		2.0	0.61	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluoropentanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluoroheptanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorononanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorodecanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorooctanesulfonamide	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorohexadecanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorooctadecanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorobutanoic acid	<0.81		2.0	0.81	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluoropentanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
NMeFOSE	<0.51		2.0	0.51	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
NMeFOSA	<0.51		2.0	0.51	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
NEtFOSE	<0.51		2.0	0.51	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
NEtFOSA	<0.51		2.0	0.51	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
HFPODA	<0.41		2.0	0.41	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
DONA	<0.20		3.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
11Cl-PF3OUdS	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluorododecanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
4:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
Perfluoroundecanoic acid	<0.20		0.61	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
6:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1
8:2 Fluorotelomer sulfonic acid	<0.61		3.0	0.61	ng/g	☼	09/19/21 16:32	09/22/21 15:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*76*		*10 - 169*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
M2-8:2 FTS	*100*		*10 - 178*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
M2-6:2 FTS	*82*		*10 - 182*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C5 PFHxA	*61*		*11 - 138*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C4 PFHpA	*64*		*15 - 139*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C8 PFOA	*67*		*21 - 133*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C9 PFNA	*63*		*15 - 145*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C6 PFDA	*69*		*21 - 134*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C7 PFUnA	*63*		*15 - 138*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C2-PFDoDA	*65*		*28 - 126*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C2 PFTeDA	*62*		*10 - 138*	*09/19/21 16:32*	*09/22/21 15:36*	*1*

Client Sample ID: SP-13-S-01-02

Date Collected: 09/15/21 15:05
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-19

Matrix: Solid
Percent Solids: 95.7

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 PFBS	*97*		*23 - 130*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C3 PFHxS	*90*		*24 - 136*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C8 PFOS	*94*		*31 - 130*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
d5-NEtFOSAA	*2*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C8 FOSA	*102*		*25 - 135*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C4 PFBA	*57*		*12 - 137*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C5 PFPeA	*58*		*12 - 135*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
d7-N-MeFOSE-M	*106*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
d3-NMePFOSA	*95*		*10 - 148*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
d9-N-EtFOSE-M	*109*		*10 - 157*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
d5-NEtPFOSA	*90*		*10 - 151*	*09/19/21 16:32*	*09/22/21 15:36*	*1*
13C3 HFPO-DA	*63*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.3**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-13-S-03-04

Date Collected: 09/15/21 15:15
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-20

Matrix: Solid
Percent Solids: 92.5

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.31**	**J**	0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluoroheptanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorooctanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorononanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorodecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorotridecanoic acid	**2.6**		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorotetradecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorohexanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorooctanesulfonic acid	**0.31**	**J**	0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
10:2 FTS	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluoropentanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluoroheptanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorononanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorodecanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorooctanesulfonamide	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorohexadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorooctadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorobutanoic acid	<0.79		2.0	0.79	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluoropentanoic acid	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1

Client Sample ID: SP-13-S-03-04

Date Collected: 09/15/21 15:15
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-20

Matrix: Solid
Percent Solids: 92.5

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
HFPODA	<0.40		2.0	0.40	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
DONA	<0.20		3.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
11Cl-PF3OUdS	<0.20		0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluorododecanoic acid	**0.29**	**J**	0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
4:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
Perfluoroundecanoic acid	**0.45**	**J**	0.59	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
6:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1
8:2 Fluorotelomer sulfonic acid	<0.59		3.0	0.59	ng/g	☼	09/19/21 16:32	09/22/21 15:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*112*		*10 - 169*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
M2-8:2 FTS	*138*		*10 - 178*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
M2-6:2 FTS	*136*		*10 - 182*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C5 PFHxA	*96*		*11 - 138*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C4 PFHpA	*101*		*15 - 139*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C8 PFOA	*100*		*21 - 133*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C9 PFNA	*90*		*15 - 145*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C6 PFDA	*103*		*21 - 134*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C7 PFUnA	*98*		*15 - 138*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C2-PFDoDA	*97*		*28 - 126*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C2 PFTeDA	*92*		*10 - 138*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C3 PFBS	*115*		*23 - 130*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C3 PFHxS	*113*		*24 - 136*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C8 PFOS	*105*		*31 - 130*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
d3-NMeFOSAA	*67*		*10 - 172*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
d5-NEtFOSAA	*75*		*10 - 176*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C8 FOSA	*107*		*25 - 135*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C4 PFBA	*96*		*12 - 137*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C5 PFPeA	*94*		*12 - 135*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
d7-N-MeFOSE-M	*98*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
d3-NMePFOSA	*87*		*10 - 148*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
d9-N-EtFOSE-M	*103*		*10 - 157*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
d5-NEtPFOSA	*85*		*10 - 151*	*09/19/21 16:32*	*09/22/21 15:47*	*1*
13C3 HFPO-DA	*88*		*10 - 152*	*09/19/21 16:32*	*09/22/21 15:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-14-S-01-02

Date Collected: 09/15/21 15:25
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-21

Matrix: Solid
Percent Solids: 97.8

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-14-S-01-02
Date Collected: 09/15/21 15:25
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-21
Matrix: Solid
Percent Solids: 97.8

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
10:2 FTS	<0.60		2.0	0.60	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
HFPODA	<0.40		2.0	0.40	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
DONA	<0.20		3.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g	☼	09/19/21 16:32	09/22/21 15:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*71*		*10 - 169*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
M2-8:2 FTS	*104*		*10 - 178*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
M2-6:2 FTS	*85*		*10 - 182*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C5 PFHxA	*47*		*11 - 138*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C4 PFHpA	*52*		*15 - 139*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C8 PFOA	*53*		*21 - 133*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C9 PFNA	*51*		*15 - 145*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C6 PFDA	*60*		*21 - 134*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C7 PFUnA	*58*		*15 - 138*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C2-PFDoDA	*55*		*28 - 126*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C2 PFTeDA	*53*		*10 - 138*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C3 PFBS	*98*		*23 - 130*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C3 PFHxS	*93*		*24 - 136*	*09/19/21 16:32*	*09/22/21 15:58*	*1*
13C8 PFOS	*95*		*31 - 130*	*09/19/21 16:32*	*09/22/21 15:58*	*1*

Client Sample ID: SP-14-S-01-02

Date Collected: 09/15/21 15:25
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-21

Matrix: Solid
Percent Solids: 97.8

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	2	*5-	10 - 172	09/19/21 16:32	09/22/21 15:58	1
d5-NEtFOSAA	4	*5-	10 - 176	09/19/21 16:32	09/22/21 15:58	1
13C8 FOSA	112		25 - 135	09/19/21 16:32	09/22/21 15:58	1
13C4 PFBA	46		12 - 137	09/19/21 16:32	09/22/21 15:58	1
13C5 PFPeA	48		12 - 135	09/19/21 16:32	09/22/21 15:58	1
d7-N-MeFOSE-M	128		10 - 152	09/19/21 16:32	09/22/21 15:58	1
d3-NMePFOSA	110		10 - 148	09/19/21 16:32	09/22/21 15:58	1
d9-N-EtFOSE-M	126		10 - 157	09/19/21 16:32	09/22/21 15:58	1
d5-NEtPFOSA	103		10 - 151	09/19/21 16:32	09/22/21 15:58	1
13C3 HFPO-DA	62		10 - 152	09/19/21 16:32	09/22/21 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.2**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-14-S-03-04

Date Collected: 09/15/21 15:35
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-22

Matrix: Solid
Percent Solids: 95.2

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorooctanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorobutanesulfonic acid	<0.39		1.9	0.39	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorooctanesulfonic acid	**0.22**	**J**	0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorobutanoic acid	<0.78		1.9	0.78	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluoropentanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
NMeFOSE	<0.49		1.9	0.49	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
NMeFOSA	<0.49		1.9	0.49	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
NEtFOSE	<0.49		1.9	0.49	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
NEtFOSA	<0.49		1.9	0.49	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
HFPODA	<0.39		1.9	0.39	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1

Client Sample ID: SP-14-S-03-04

Date Collected: 09/15/21 15:35
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-22

Matrix: Solid
Percent Solids: 95.2

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	<0.19		2.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
Perfluoroundecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	09/19/21 16:32	09/22/21 16:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*10 - 169*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
M2-8:2 FTS	*108*		*10 - 178*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
M2-6:2 FTS	*91*		*10 - 182*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C5 PFHxA	*69*		*11 - 138*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C4 PFHpA	*75*		*15 - 139*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C8 PFOA	*73*		*21 - 133*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C9 PFNA	*66*		*15 - 145*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C6 PFDA	*77*		*21 - 134*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C7 PFUnA	*75*		*15 - 138*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C2-PFDoDA	*75*		*28 - 126*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C2 PFTeDA	*61*		*10 - 138*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C3 PFBS	*105*		*23 - 130*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C3 PFHxS	*100*		*24 - 136*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C8 PFOS	*100*		*31 - 130*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
d3-NMeFOSAA	*3*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
d5-NEtFOSAA	*4*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C8 FOSA	*110*		*25 - 135*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C4 PFBA	*68*		*12 - 137*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C5 PFPeA	*67*		*12 - 135*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
d7-N-MeFOSE-M	*122*		*10 - 152*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
d3-NMePFOSA	*110*		*10 - 148*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
d9-N-EtFOSE-M	*126*		*10 - 157*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
d5-NEtPFOSA	*104*		*10 - 151*	*09/19/21 16:32*	*09/22/21 16:09*	*1*
13C3 HFPO-DA	*70*		*10 - 152*	*09/19/21 16:32*	*09/22/21 16:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.8**		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-15-S-01-02

Date Collected: 09/15/21 15:50
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-23

Matrix: Solid
Percent Solids: 96.7

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluoroheptanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorooctanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorononanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorodecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorotridecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1

Client Sample ID: SP-15-S-01-02
Date Collected: 09/15/21 15:50
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-23
Matrix: Solid
Percent Solids: 96.7

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorohexanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorooctanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
10:2 FTS	<0.57		1.9	0.57	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluoropentanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluoroheptanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorononanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorodecanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorooctanesulfonamide	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorohexadecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorooctadecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluoropentanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
HFPODA	<0.38		1.9	0.38	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
DONA	<0.19		2.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
11Cl-PF3OUdS	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluorododecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
4:2 Fluorotelomer sulfonic acid	<0.57		1.9	0.57	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
Perfluoroundecanoic acid	<0.19		0.57	0.19	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
6:2 Fluorotelomer sulfonic acid	<0.57		1.9	0.57	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1
8:2 Fluorotelomer sulfonic acid	<0.57		2.9	0.57	ng/g	☼	09/19/21 16:32	09/22/21 16:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*66*		*10 - 169*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
M2-8:2 FTS	*92*		*10 - 178*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
M2-6:2 FTS	*82*		*10 - 182*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C5 PFHxA	*48*		*11 - 138*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C4 PFHpA	*52*		*15 - 139*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C8 PFOA	*55*		*21 - 133*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C9 PFNA	*53*		*15 - 145*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C6 PFDA	*60*		*21 - 134*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C7 PFUnA	*61*		*15 - 138*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C2-PFDoDA	*58*		*28 - 126*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C2 PFTeDA	*64*		*10 - 138*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C3 PFBS	*105*		*23 - 130*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C3 PFHxS	*96*		*24 - 136*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C8 PFOS	*101*		*31 - 130*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 16:20*	*1*
13C8 FOSA	*111*		*25 - 135*	*09/19/21 16:32*	*09/22/21 16:20*	*1*

Client Sample ID: SP-15-S-01-02

Lab Sample ID: 410-55513-23

Date Collected: 09/15/21 15:50
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 96.7

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	46		12 - 137	09/19/21 16:32	09/22/21 16:20	1
13C5 PFPeA	47		12 - 135	09/19/21 16:32	09/22/21 16:20	1
d7-N-MeFOSE-M	114		10 - 152	09/19/21 16:32	09/22/21 16:20	1
d3-NMePFOSA	106		10 - 148	09/19/21 16:32	09/22/21 16:20	1
d9-N-EtFOSE-M	118		10 - 157	09/19/21 16:32	09/22/21 16:20	1
d5-NEtPFOSA	102		10 - 151	09/19/21 16:32	09/22/21 16:20	1
13C3 HFPO-DA	65		10 - 152	09/19/21 16:32	09/22/21 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.3		1.0	1.0	%			09/20/21 09:35	1

Client Sample ID: SP-15-S-03-04

Lab Sample ID: 410-55513-24

Date Collected: 09/15/21 16:00
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 94.1

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluoroheptanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorooctanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorooctanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluoropentanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
HFPODA	<0.41		2.1	0.41	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
DONA	<0.21		3.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-15-S-03-04
Date Collected: 09/15/21 16:00
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-24
Matrix: Solid
Percent Solids: 94.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	09/19/21 16:32	09/22/21 16:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*57*		*10 - 169*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
M2-8:2 FTS	*77*		*10 - 178*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
M2-6:2 FTS	*67*		*10 - 182*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C5 PFHxA	*39*		*11 - 138*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C4 PFHpA	*46*		*15 - 139*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C8 PFOA	*49*		*21 - 133*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C9 PFNA	*46*		*15 - 145*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C6 PFDA	*55*		*21 - 134*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C7 PFUnA	*50*		*15 - 138*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C2-PFDoDA	*52*		*28 - 126*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C2 PFTeDA	*49*		*10 - 138*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C3 PFBS	*90*		*23 - 130*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C3 PFHxS	*87*		*24 - 136*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C8 PFOS	*93*		*31 - 130*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 172*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 176*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C8 FOSA	*108*		*25 - 135*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C4 PFBA	*37*		*12 - 137*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C5 PFPeA	*39*		*12 - 135*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
d7-N-MeFOSE-M	*108*		*10 - 152*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
d3-NMePFOSA	*110*		*10 - 148*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
d9-N-EtFOSE-M	*115*		*10 - 157*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
d5-NEtPFOSA	*104*		*10 - 151*	*09/19/21 16:32*	*09/22/21 16:31*	*1*
13C3 HFPO-DA	*52*		*10 - 152*	*09/19/21 16:32*	*09/22/21 16:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.9**		1.0	1.0	%			09/20/21 09:35	1

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-169)	M282FTS (10-178)	M262FTS (10-182)	13C5PHA (11-138)	C4PFHA (15-139)	C8PFOA (21-133)	C9PFNA (15-145)	C6PFDA (21-134)
410-55513-1	SP-5-S-01-02	73	95	75	54	58	63	59	63
410-55513-2	SP-5-S-03-04	73	71	78	49	54	61	53	58
410-55513-3	SP-6-S-01-02	77	99	90	70	76	75	76	79
410-55513-4	SP-6-S-03-04	81	86	96	59	65	68	64	73
410-55513-5	SP-7-S-01-02	89	109	104	74	86	86	87	92
410-55513-6	SP-7-S-03-04	125	124	135	97	103	106	91	112
410-55513-7	SP-8-S-01-02	56	66	67	49	50	51	45	57
410-55513-8	SP-8-S-03-04	57	71	62	42	45	48	44	53
410-55513-9	SP-9-S-01-02	100	122	111	79	84	87	76	90
410-55513-10	SP-9-S-03-04	103	117	114	85	87	90	84	99
410-55513-11	SP-10-S-01-02	87	98	99	78	80	88	76	85
410-55513-12	SP-10-S-03-04	78	86	89	72	69	78	71	77
410-55513-13	SP-11-S-01-02	105	153	131	89	97	101	93	107
410-55513-14	SP-11-S-03-04	95	96	104	92	88	95	92	94
410-55513-15	SP-12-S-01-02	65	81	77	59	61	68	68	72
410-55513-16	SP-12-S-03-04	64	93	80	42	47	49	46	50
410-55513-19	SP-13-S-01-02	76	100	82	61	64	67	63	69
410-55513-20	SP-13-S-03-04	112	138	136	96	101	100	90	103
410-55513-21	SP-14-S-01-02	71	104	85	47	52	53	51	60
410-55513-22	SP-14-S-03-04	79	108	91	69	75	73	66	77
410-55513-23	SP-15-S-01-02	66	92	82	48	52	55	53	60
410-55513-24	SP-15-S-03-04	57	77	67	39	46	49	46	55
LCS 410-172968/2-B	Lab Control Sample	118	105	118	103	105	106	93	106
LCS 410-175962/2-B	Lab Control Sample	88	86	82	88	88	91	83	85
LCS 410-177902/2-D	Lab Control Sample	91	104	94	95	98	99	101	104
LCSD 410-172968/3-B	Lab Control Sample Dup	131	129	131	113	114	120	108	125
LCSD 410-175962/3-B	Lab Control Sample Dup	89	86	91	85	86	92	85	87
LCSD 410-177902/3-D	Lab Control Sample Dup	91	106	96	93	98	101	101	104
MB 410-172968/1-B	Method Blank	127	130	134	115	121	119	100	119
MB 410-175962/1-B	Method Blank	91	96	98	89	83	93	90	93
MB 410-177902/1-D	Method Blank	83	102	88	90	96	96	101	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (15-138)	PFDoDA (28-126)	PFTDA (10-138)	C3PFBS (23-130)	C3PFHS (24-136)	C8PFOS (31-130)	d3NMFOS (10-172)	d5NEFOS (10-176)
410-55513-1	SP-5-S-01-02	63	65	58	96	104	98	6 *5-	8 *5-
410-55513-2	SP-5-S-03-04	53	54	49	98	97	94	9 *5-	8 *5-
410-55513-3	SP-6-S-01-02	77	76	66	115	109	111	4 *5-	5 *5-
410-55513-4	SP-6-S-03-04	76	70	65	116	108	113	7 *5-	9 *5-
410-55513-5	SP-7-S-01-02	81	86	84	105	111	115	4 *5-	5 *5-
410-55513-6	SP-7-S-03-04	104	100	96	120	115	113	49	61
410-55513-7	SP-8-S-01-02	53	56	51	84	88	89	8 *5-	8 *5-
410-55513-8	SP-8-S-03-04	47	50	51	72	77	74	4 *5-	6 *5-
410-55513-9	SP-9-S-01-02	78	80	80	105	104	98	10	11
410-55513-10	SP-9-S-03-04	84	85	89	114	110	114	8 *5-	11
410-55513-11	SP-10-S-01-02	77	74	68	113	114	112	5 *5-	5 *5-
410-55513-12	SP-10-S-03-04	79	77	73	87	89	88	7 *5-	10
410-55513-13	SP-11-S-01-02	95	100	106	117	105	105	67	84
410-55513-14	SP-11-S-03-04	90	89	88	93	96	93	19	24
410-55513-15	SP-12-S-01-02	71	67	63	100	92	94	14	20

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (15-138)	PFDoDA (28-126)	PFTDA (10-138)	C3PFBS (23-130)	C3PFHS (24-136)	C8PFOS (31-130)	d3NMFOS (10-172)	d5NEFOS (10-176)
410-55513-16	SP-12-S-03-04	46	48	54	91	93	93	6 *5-	8 *5-
410-55513-19	SP-13-S-01-02	63	65	62	97	90	94	2 *5-	2 *5-
410-55513-20	SP-13-S-03-04	98	97	92	115	113	105	67	75
410-55513-21	SP-14-S-01-02	58	55	53	98	93	95	2 *5-	4 *5-
410-55513-22	SP-14-S-03-04	75	75	61	105	100	100	3 *5-	4 *5-
410-55513-23	SP-15-S-01-02	61	58	64	105	96	101	4 *5-	5 *5-
410-55513-24	SP-15-S-03-04	50	52	49	90	87	93	4 *5-	5 *5-
LCS 410-172968/2-B	Lab Control Sample	99	93	90	107	110	106	114	111
LCS 410-175962/2-B	Lab Control Sample	86	82	79	90	89	90	77	78
LCS 410-177902/2-D	Lab Control Sample	104	102	94	115	103	102	94	96
LCSD 410-172968/3-B	Lab Control Sample Dup	114	120	101	127	124	120	135	127
LCSD 410-175962/3-B	Lab Control Sample Dup	83	88	87	90	87	87	75	80
LCSD 410-177902/3-D	Lab Control Sample Dup	96	95	92	109	104	99	95	98
MB 410-172968/1-B	Method Blank	109	102	95	113	126	115	112	107
MB 410-175962/1-B	Method Blank	92	86	79	86	89	84	69	77
MB 410-177902/1-D	Method Blank	94	94	84	113	97	104	82	81

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-135)	PFBA (12-137)	PFPeA (12-135)	NMFM (10-152)	d3NMFSA (10-148)	NEFM (10-157)	d5NPFSA (10-151)	HFPODA (10-152)
410-55513-1	SP-5-S-01-02	116	47	45	120	112	122	106	73
410-55513-2	SP-5-S-03-04	108	49	49	105	99	106	102	60
410-55513-3	SP-6-S-01-02	122	66	65	116	107	117	104	78
410-55513-4	SP-6-S-03-04	128	57	55	124	121	134	122	72
410-55513-5	SP-7-S-01-02	115	70	69	115	106	116	103	77
410-55513-6	SP-7-S-03-04	112	92	89	104	95	112	96	93
410-55513-7	SP-8-S-01-02	114	41	42	115	111	123	108	49
410-55513-8	SP-8-S-03-04	86	38	42	79	71	82	69	48
410-55513-9	SP-9-S-01-02	107	78	78	105	98	103	98	76
410-55513-10	SP-9-S-03-04	107	83	82	105	100	110	97	91
410-55513-11	SP-10-S-01-02	110	68	71	108	105	120	104	72
410-55513-12	SP-10-S-03-04	91	65	67	90	90	98	100	71
410-55513-13	SP-11-S-01-02	104	92	93	98	85	103	83	85
410-55513-14	SP-11-S-03-04	89	83	88	93	85	96	94	84
410-55513-15	SP-12-S-01-02	97	54	59	90	90	104	94	73
410-55513-16	SP-12-S-03-04	105	38	41	117	103	119	95	62
410-55513-19	SP-13-S-01-02	102	57	58	106	95	109	90	63
410-55513-20	SP-13-S-03-04	107	96	94	98	87	103	85	88
410-55513-21	SP-14-S-01-02	112	46	48	128	110	126	103	62
410-55513-22	SP-14-S-03-04	110	68	67	122	110	126	104	70
410-55513-23	SP-15-S-01-02	111	46	47	114	106	118	102	65
410-55513-24	SP-15-S-03-04	108	37	39	108	110	115	104	52
LCS 410-172968/2-B	Lab Control Sample	111	97	92	106	105	108	100	106
LCS 410-175962/2-B	Lab Control Sample	83	83	84	87	84	84	85	88
LCS 410-177902/2-D	Lab Control Sample	107	97	100	107	111	116	105	102
LCSD 410-172968/3-B	Lab Control Sample Dup	134	113	108	131	129	133	125	101
LCSD 410-175962/3-B	Lab Control Sample Dup	84	83	84	87	86	87	88	81
LCSD 410-177902/3-D	Lab Control Sample Dup	107	97	98	96	99	109	102	102
MB 410-172968/1-B	Method Blank	125	102	98	119	112	121	111	102
MB 410-175962/1-B	Method Blank	87	80	82	87	81	88	88	82
MB 410-177902/1-D	Method Blank	98	94	93	101	92	108	95	96

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA
Lab Sample ID	Client Sample ID	(20-187)	(34-182)	(29-189)	(31-142)	(30-144)	(49-127)	(47-136)	(47-128)
410-55513-17	FB-09152021	102	108	105	95	99	99	101	100
410-55513-18	EB-09152021	92	102	92	84	89	89	98	95
LCS 410-173391/2-A	Lab Control Sample	95	96	86	84	88	89	96	91
LCSD 410-173391/3-A	Lab Control Sample Dup	93	94	94	85	88	91	98	93
MB 410-173391/1-A	Method Blank	92	96	87	86	89	89	90	90

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C7PUA	PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(40-135)	(28-136)	(10-144)	(19-178)	(32-145)	(49-126)	(32-151)	(37-164)
410-55513-17	FB-09152021	94	94	100	90	88	106	116	120
410-55513-18	EB-09152021	88	89	98	85	81	100	116	112
LCS 410-173391/2-A	Lab Control Sample	88	88	93	85	78	95	110	108
LCSD 410-173391/3-A	Lab Control Sample Dup	86	89	91	84	79	95	109	107
MB 410-173391/1-A	Method Blank	80	84	88	82	83	92	105	104

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA	PFBA	PFPeA	NMFM	d3NMFSA	NEFM	d5NPFSA	HFPODA
Lab Sample ID	Client Sample ID	(10-143)	(41-132)	(33-155)	(10-143)	(10-107)	(10-142)	(10-108)	(20-153)
410-55513-17	FB-09152021	85	95	94	90	72	89	72	95
410-55513-18	EB-09152021	82	90	88	89	78	88	77	86
LCS 410-173391/2-A	Lab Control Sample	77	90	87	79	66	83	68	86
LCSD 410-173391/3-A	Lab Control Sample Dup	79	89	87	79	61	79	64	98
MB 410-173391/1-A	Method Blank	76	85	82	78	71	78	67	70

Surrogate Legend

M242FTS = M2-4:2 FTS

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-172968/1-B
Matrix: Solid
Analysis Batch: 174137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
10:2 FTS	<0.60		2.0	0.60	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
NMeFOSE	<0.50		2.0	0.50	ng/g		09/19/21 16:32	09/22/21 12:28	1
NMeFOSA	<0.50		2.0	0.50	ng/g		09/19/21 16:32	09/22/21 12:28	1
NEtFOSE	<0.50		2.0	0.50	ng/g		09/19/21 16:32	09/22/21 12:28	1
NEtFOSA	<0.50		2.0	0.50	ng/g		09/19/21 16:32	09/22/21 12:28	1
HFPODA	<0.40		2.0	0.40	ng/g		09/19/21 16:32	09/22/21 12:28	1
DONA	<0.20		3.0	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		09/19/21 16:32	09/22/21 12:28	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		09/19/21 16:32	09/22/21 12:28	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		09/19/21 16:32	09/22/21 12:28	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		09/19/21 16:32	09/22/21 12:28	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*127*		*10 - 169*	*09/19/21 16:32*	*09/22/21 12:28*	*1*
M2-8:2 FTS	*130*		*10 - 178*	*09/19/21 16:32*	*09/22/21 12:28*	*1*
M2-6:2 FTS	*134*		*10 - 182*	*09/19/21 16:32*	*09/22/21 12:28*	*1*
13C5 PFHxA	*115*		*11 - 138*	*09/19/21 16:32*	*09/22/21 12:28*	*1*
13C4 PFHpA	*121*		*15 - 139*	*09/19/21 16:32*	*09/22/21 12:28*	*1*
13C8 PFOA	*119*		*21 - 133*	*09/19/21 16:32*	*09/22/21 12:28*	*1*
13C9 PFNA	*100*		*15 - 145*	*09/19/21 16:32*	*09/22/21 12:28*	*1*
13C6 PFDA	*119*		*21 - 134*	*09/19/21 16:32*	*09/22/21 12:28*	*1*
13C7 PFUnA	*109*		*15 - 138*	*09/19/21 16:32*	*09/22/21 12:28*	*1*
13C2-PFDoDA	*102*		*28 - 126*	*09/19/21 16:32*	*09/22/21 12:28*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-172968/1-B
Matrix: Solid
Analysis Batch: 174137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172968

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	95		10 - 138	09/19/21 16:32	09/22/21 12:28	1
13C3 PFBS	113		23 - 130	09/19/21 16:32	09/22/21 12:28	1
13C3 PFHxS	126		24 - 136	09/19/21 16:32	09/22/21 12:28	1
13C8 PFOS	115		31 - 130	09/19/21 16:32	09/22/21 12:28	1
d3-NMeFOSAA	112		10 - 172	09/19/21 16:32	09/22/21 12:28	1
d5-NEtFOSAA	107		10 - 176	09/19/21 16:32	09/22/21 12:28	1
13C8 FOSA	125		25 - 135	09/19/21 16:32	09/22/21 12:28	1
13C4 PFBA	102		12 - 137	09/19/21 16:32	09/22/21 12:28	1
13C5 PFPeA	98		12 - 135	09/19/21 16:32	09/22/21 12:28	1
d7-N-MeFOSE-M	119		10 - 152	09/19/21 16:32	09/22/21 12:28	1
d3-NMePFOSA	112		10 - 148	09/19/21 16:32	09/22/21 12:28	1
d9-N-EtFOSE-M	121		10 - 157	09/19/21 16:32	09/22/21 12:28	1
d5-NEtPFOSA	111		10 - 151	09/19/21 16:32	09/22/21 12:28	1
13C3 HFPO-DA	102		10 - 152	09/19/21 16:32	09/22/21 12:28	1

Lab Sample ID: LCS 410-172968/2-B
Matrix: Solid
Analysis Batch: 174137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.0	25.3		ng/g		101	61 - 147
Perfluoroheptanoic acid	25.0	26.1		ng/g		104	61 - 151
Perfluorooctanoic acid	25.0	24.2		ng/g		97	62 - 144
Perfluorononanoic acid	25.0	27.8		ng/g		111	62 - 148
Perfluorodecanoic acid	25.0	24.1		ng/g		96	62 - 142
Perfluorotridecanoic acid	25.0	31.1		ng/g		125	57 - 152
Perfluorotetradecanoic acid	25.0	26.2		ng/g		105	60 - 147
Perfluorobutanesulfonic acid	22.1	21.2		ng/g		96	62 - 137
Perfluorohexanesulfonic acid	22.8	22.1		ng/g		97	57 - 135
Perfluorooctanesulfonic acid	23.1	22.7		ng/g		98	48 - 134
NEtFOSAA	25.0	24.5		ng/g		98	50 - 140
NMeFOSAA	25.0	20.7		ng/g		83	53 - 149
10:2 FTS	24.1	24.8		ng/g		103	42 - 142
Perfluoropentanesulfonic acid	23.5	21.9		ng/g		94	65 - 145
Perfluoroheptanesulfonic acid	23.8	25.2		ng/g		106	67 - 138
Perfluorononanesulfonic acid	24.0	22.6		ng/g		94	63 - 143
Perfluorodecanesulfonic acid	24.1	23.6		ng/g		98	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	23.9		ng/g		99	52 - 145
Perfluorooctanesulfonamide	25.0	22.9		ng/g		92	52 - 132
Perfluorohexadecanoic acid	25.0	29.6		ng/g		118	44 - 161
Perfluorooctadecanoic acid	25.0	27.4		ng/g		110	16 - 175
Perfluorobutanoic acid	25.0	20.7		ng/g		83	50 - 185
Perfluoropentanoic acid	25.0	25.4		ng/g		102	69 - 144
NMeFOSE	25.0	23.8		ng/g		95	47 - 138
NMeFOSA	25.0	22.2		ng/g		89	43 - 134
NEtFOSE	25.0	23.2		ng/g		93	46 - 134
NEtFOSA	25.0	23.1		ng/g		92	48 - 130
HFPODA	25.0	25.9		ng/g		103	29 - 162

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-172968/2-B
Matrix: Solid
Analysis Batch: 174137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DONA	23.6	25.2		ng/g		107	48 - 155
9Cl-PF3ONS	23.3	20.7		ng/g		89	48 - 146
11Cl-PF3OUdS	23.3	22.9		ng/g		99	45 - 145
Perfluorododecanoic acid	25.0	28.1		ng/g		112	60 - 147
4:2 Fluorotelomer sulfonic acid	23.4	20.4		ng/g		88	55 - 132
Perfluoroundecanoic acid	25.0	26.4		ng/g		105	62 - 144
6:2 Fluorotelomer sulfonic acid	23.7	21.8		ng/g		92	53 - 137
8:2 Fluorotelomer sulfonic acid	24.0	24.4		ng/g		102	50 - 147

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*118*		*10 - 169*
M2-8:2 FTS	*105*		*10 - 178*
M2-6:2 FTS	*118*		*10 - 182*
13C5 PFHxA	*103*		*11 - 138*
13C4 PFHpA	*105*		*15 - 139*
13C8 PFOA	*106*		*21 - 133*
13C9 PFNA	*93*		*15 - 145*
13C6 PFDA	*106*		*21 - 134*
13C7 PFUnA	*99*		*15 - 138*
13C2-PFDoDA	*93*		*28 - 126*
13C2 PFTeDA	*90*		*10 - 138*
13C3 PFBS	*107*		*23 - 130*
13C3 PFHxS	*110*		*24 - 136*
13C8 PFOS	*106*		*31 - 130*
d3-NMeFOSAA	*114*		*10 - 172*
d5-NEtFOSAA	*111*		*10 - 176*
13C8 FOSA	*111*		*25 - 135*
13C4 PFBA	*97*		*12 - 137*
13C5 PFPeA	*92*		*12 - 135*
d7-N-MeFOSE-M	*106*		*10 - 152*
d3-NMePFOSA	*105*		*10 - 148*
d9-N-EtFOSE-M	*108*		*10 - 157*
d5-NEtPFOSA	*100*		*10 - 151*
13C3 HFPO-DA	*106*		*10 - 152*

Lab Sample ID: LCSD 410-172968/3-B
Matrix: Solid
Analysis Batch: 174137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.0	27.5		ng/g		110	61 - 147	8	30
Perfluoroheptanoic acid	25.0	28.1		ng/g		113	61 - 151	8	30
Perfluorooctanoic acid	25.0	26.1		ng/g		105	62 - 144	8	30
Perfluorononanoic acid	25.0	26.7		ng/g		107	62 - 148	4	30
Perfluorodecanoic acid	25.0	23.5		ng/g		94	62 - 142	3	30
Perfluorotridecanoic acid	25.0	29.5		ng/g		118	57 - 152	5	30
Perfluorotetradecanoic acid	25.0	28.4		ng/g		113	60 - 147	8	30
Perfluorobutanesulfonic acid	22.1	21.4		ng/g		97	62 - 137	1	30
Perfluorohexanesulfonic acid	22.8	23.6		ng/g		104	57 - 135	7	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-172968/3-B
Matrix: Solid
Analysis Batch: 174137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172968

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid			23.1	22.7		ng/g		98	48 - 134	0	30
NEtFOSAA			25.0	25.5		ng/g		102	50 - 140	4	30
NMeFOSAA			25.0	22.1		ng/g		89	53 - 149	7	30
10:2 FTS			24.1	25.3		ng/g		105	42 - 142	2	30
Perfluoropentanesulfonic acid			23.5	22.6		ng/g		96	65 - 145	3	30
Perfluoroheptanesulfonic acid			23.8	25.6		ng/g		108	67 - 138	2	30
Perfluorononanesulfonic acid			24.0	22.6		ng/g		94	63 - 143	0	30
Perfluorodecanesulfonic acid			24.1	24.7		ng/g		102	60 - 142	4	30
Perfluorododecanesulfonic acid (PFDoS)			24.2	25.7		ng/g		106	52 - 145	7	30
Perfluorooctanesulfonamide			25.0	21.9		ng/g		88	52 - 132	5	30
Perfluorohexadecanoic acid			25.0	31.6		ng/g		126	44 - 161	7	30
Perfluorooctadecanoic acid			25.0	30.3		ng/g		121	16 - 175	10	30
Perfluorobutanoic acid			25.0	22.1		ng/g		88	50 - 185	7	30
Perfluoropentanoic acid			25.0	25.5		ng/g		102	69 - 144	0	30
NMeFOSE			25.0	23.7		ng/g		95	47 - 138	1	30
NMeFOSA			25.0	23.3		ng/g		93	43 - 134	5	30
NEtFOSE			25.0	22.7		ng/g		91	46 - 134	3	30
NEtFOSA			25.0	21.9		ng/g		88	48 - 130	5	30
HFPODA			25.0	31.6		ng/g		126	29 - 162	20	30
DONA			23.6	25.0		ng/g		106	48 - 155	1	30
9Cl-PF3ONS			23.3	20.7		ng/g		89	48 - 146	0	30
11Cl-PF3OUdS			23.3	24.3		ng/g		104	45 - 145	6	30
Perfluorododecanoic acid			25.0	26.7		ng/g		107	60 - 147	5	30
4:2 Fluorotelomer sulfonic acid			23.4	22.3		ng/g		95	55 - 132	9	30
Perfluoroundecanoic acid			25.0	28.6		ng/g		115	62 - 144	8	30
6:2 Fluorotelomer sulfonic acid			23.7	21.6		ng/g		91	53 - 137	1	30
8:2 Fluorotelomer sulfonic acid			24.0	25.6		ng/g		107	50 - 147	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*131*		*10 - 169*
M2-8:2 FTS	*129*		*10 - 178*
M2-6:2 FTS	*131*		*10 - 182*
13C5 PFHxA	*113*		*11 - 138*
13C4 PFHpA	*114*		*15 - 139*
13C8 PFOA	*120*		*21 - 133*
13C9 PFNA	*108*		*15 - 145*
13C6 PFDA	*125*		*21 - 134*
13C7 PFUnA	*114*		*15 - 138*
13C2-PFDoDA	*120*		*28 - 126*
13C2 PFTeDA	*101*		*10 - 138*
13C3 PFBS	*127*		*23 - 130*
13C3 PFHxS	*124*		*24 - 136*
13C8 PFOS	*120*		*31 - 130*
d3-NMeFOSAA	*135*		*10 - 172*
d5-NEtFOSAA	*127*		*10 - 176*
13C8 FOSA	*134*		*25 - 135*
13C4 PFBA	*113*		*12 - 137*
13C5 PFPeA	*108*		*12 - 135*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-172968/3-B
Matrix: Solid
Analysis Batch: 174137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172968

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d7-N-MeFOSE-M	131		10 - 152
d3-NMePFOSA	129		10 - 148
d9-N-EtFOSE-M	133		10 - 157
d5-NEtPFOSA	125		10 - 151
13C3 HFPO-DA	101		10 - 152

Lab Sample ID: MB 410-175962/1-B
Matrix: Solid
Analysis Batch: 176297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 175962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
10:2 FTS	<0.60		2.0	0.60	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
NMeFOSE	<0.50		2.0	0.50	ng/g		09/27/21 21:55	09/28/21 17:27	1
NMeFOSA	<0.50		2.0	0.50	ng/g		09/27/21 21:55	09/28/21 17:27	1
NEtFOSE	<0.50		2.0	0.50	ng/g		09/27/21 21:55	09/28/21 17:27	1
NEtFOSA	<0.50		2.0	0.50	ng/g		09/27/21 21:55	09/28/21 17:27	1
HFPODA	<0.40		2.0	0.40	ng/g		09/27/21 21:55	09/28/21 17:27	1
DONA	<0.20		3.0	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		09/27/21 21:55	09/28/21 17:27	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		09/27/21 21:55	09/28/21 17:27	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		09/27/21 21:55	09/28/21 17:27	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		09/27/21 21:55	09/28/21 17:27	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	91		10 - 169	09/27/21 21:55	09/28/21 17:27	1
M2-8:2 FTS	96		10 - 178	09/27/21 21:55	09/28/21 17:27	1
M2-6:2 FTS	98		10 - 182	09/27/21 21:55	09/28/21 17:27	1
13C5 PFHxA	89		11 - 138	09/27/21 21:55	09/28/21 17:27	1
13C4 PFHpA	83		15 - 139	09/27/21 21:55	09/28/21 17:27	1
13C8 PFOA	93		21 - 133	09/27/21 21:55	09/28/21 17:27	1
13C9 PFNA	90		15 - 145	09/27/21 21:55	09/28/21 17:27	1
13C6 PFDA	93		21 - 134	09/27/21 21:55	09/28/21 17:27	1
13C7 PFUnA	92		15 - 138	09/27/21 21:55	09/28/21 17:27	1
13C2-PFDoDA	86		28 - 126	09/27/21 21:55	09/28/21 17:27	1
13C2 PFTeDA	79		10 - 138	09/27/21 21:55	09/28/21 17:27	1
13C3 PFBS	86		23 - 130	09/27/21 21:55	09/28/21 17:27	1
13C3 PFHxS	89		24 - 136	09/27/21 21:55	09/28/21 17:27	1
13C8 PFOS	84		31 - 130	09/27/21 21:55	09/28/21 17:27	1
d3-NMeFOSAA	69		10 - 172	09/27/21 21:55	09/28/21 17:27	1
d5-NEtFOSAA	77		10 - 176	09/27/21 21:55	09/28/21 17:27	1
13C8 FOSA	87		25 - 135	09/27/21 21:55	09/28/21 17:27	1
13C4 PFBA	80		12 - 137	09/27/21 21:55	09/28/21 17:27	1
13C5 PFPeA	82		12 - 135	09/27/21 21:55	09/28/21 17:27	1
d7-N-MeFOSE-M	87		10 - 152	09/27/21 21:55	09/28/21 17:27	1
d3-NMePFOSA	81		10 - 148	09/27/21 21:55	09/28/21 17:27	1
d9-N-EtFOSE-M	88		10 - 157	09/27/21 21:55	09/28/21 17:27	1
d5-NEtPFOSA	88		10 - 151	09/27/21 21:55	09/28/21 17:27	1
13C3 HFPO-DA	82		10 - 152	09/27/21 21:55	09/28/21 17:27	1

Lab Sample ID: LCS 410-175962/2-B
Matrix: Solid
Analysis Batch: 176297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.0	26.1		ng/g		104	61 - 147
Perfluoroheptanoic acid	25.0	26.2		ng/g		105	61 - 151
Perfluorooctanoic acid	25.0	25.0		ng/g		100	62 - 144
Perfluorononanoic acid	25.0	27.2		ng/g		109	62 - 148
Perfluorodecanoic acid	25.0	24.0		ng/g		96	62 - 142
Perfluorotridecanoic acid	25.0	25.8		ng/g		103	57 - 152
Perfluorotetradecanoic acid	25.0	27.6		ng/g		110	60 - 147
Perfluorobutanesulfonic acid	22.1	21.1		ng/g		95	62 - 137
Perfluorohexanesulfonic acid	22.8	23.1		ng/g		101	57 - 135
Perfluorooctanesulfonic acid	23.1	22.5		ng/g		97	48 - 134
NEtFOSAA	25.0	29.4		ng/g		118	50 - 140
NMeFOSAA	25.0	26.7		ng/g		107	53 - 149
10:2 FTS	24.1	23.6		ng/g		98	42 - 142
Perfluoropentanesulfonic acid	23.5	22.8		ng/g		97	65 - 145
Perfluoroheptanesulfonic acid	23.8	24.2		ng/g		102	67 - 138
Perfluorononanesulfonic acid	24.0	23.1		ng/g		96	63 - 143
Perfluorodecanesulfonic acid	24.1	22.5		ng/g		93	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	24.4		ng/g		101	52 - 145
Perfluorooctanesulfonamide	25.0	26.2		ng/g		105	52 - 132
Perfluorohexadecanoic acid	25.0	26.3		ng/g		105	44 - 161
Perfluorooctadecanoic acid	25.0	26.7		ng/g		107	16 - 175

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-175962/2-B
Matrix: Solid
Analysis Batch: 176297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid	25.0	24.8		ng/g		99	50 - 185
Perfluoropentanoic acid	25.0	26.1		ng/g		104	69 - 144
NMeFOSE	25.0	26.7		ng/g		107	47 - 138
NMeFOSA	25.0	23.5		ng/g		94	43 - 134
NEtFOSE	25.0	27.1		ng/g		108	46 - 134
NEtFOSA	25.0	24.1		ng/g		96	48 - 130
HFPODA	25.0	23.4		ng/g		93	29 - 162
DONA	23.6	24.9		ng/g		105	48 - 155
9Cl-PF3ONS	23.3	23.1		ng/g		99	48 - 146
11Cl-PF3OUdS	23.3	22.7		ng/g		97	45 - 145
Perfluorododecanoic acid	25.0	26.7		ng/g		107	60 - 147
4:2 Fluorotelomer sulfonic acid	23.4	23.3		ng/g		100	55 - 132
Perfluoroundecanoic acid	25.0	25.7		ng/g		103	62 - 144
6:2 Fluorotelomer sulfonic acid	23.7	25.6		ng/g		108	53 - 137
8:2 Fluorotelomer sulfonic acid	24.0	23.8		ng/g		99	50 - 147

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*88*		*10 - 169*
M2-8:2 FTS	*86*		*10 - 178*
M2-6:2 FTS	*82*		*10 - 182*
13C5 PFHxA	*88*		*11 - 138*
13C4 PFHpA	*88*		*15 - 139*
13C8 PFOA	*91*		*21 - 133*
13C9 PFNA	*83*		*15 - 145*
13C6 PFDA	*85*		*21 - 134*
13C7 PFUnA	*86*		*15 - 138*
13C2-PFDoDA	*82*		*28 - 126*
13C2 PFTeDA	*79*		*10 - 138*
13C3 PFBS	*90*		*23 - 130*
13C3 PFHxS	*89*		*24 - 136*
13C8 PFOS	*90*		*31 - 130*
d3-NMeFOSAA	*77*		*10 - 172*
d5-NEtFOSAA	*78*		*10 - 176*
13C8 FOSA	*83*		*25 - 135*
13C4 PFBA	*83*		*12 - 137*
13C5 PFPeA	*84*		*12 - 135*
d7-N-MeFOSE-M	*87*		*10 - 152*
d3-NMePFOSA	*84*		*10 - 148*
d9-N-EtFOSE-M	*84*		*10 - 157*
d5-NEtPFOSA	*85*		*10 - 151*
13C3 HFPO-DA	*88*		*10 - 152*

Lab Sample ID: LCSD 410-175962/3-B
Matrix: Solid
Analysis Batch: 176297

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 175962

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.0	26.3		ng/g		105	61 - 147	1	30
Perfluoroheptanoic acid	25.0	26.0		ng/g		104	61 - 151	1	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-175962/3-B
Matrix: Solid
Analysis Batch: 176297

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 175962

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid			25.0	24.0		ng/g		96	62 - 144	4	30
Perfluorononanoic acid			25.0	26.4		ng/g		106	62 - 148	3	30
Perfluorodecanoic acid			25.0	26.1		ng/g		104	62 - 142	8	30
Perfluorotridecanoic acid			25.0	25.4		ng/g		102	57 - 152	2	30
Perfluorotetradecanoic acid			25.0	26.9		ng/g		108	60 - 147	2	30
Perfluorobutanesulfonic acid			22.1	21.6		ng/g		98	62 - 137	3	30
Perfluorohexanesulfonic acid			22.8	23.5		ng/g		103	57 - 135	2	30
Perfluorooctanesulfonic acid			23.1	23.4		ng/g		101	48 - 134	4	30
NEtFOSAA			25.0	26.5		ng/g		106	50 - 140	10	30
NMeFOSAA			25.0	26.6		ng/g		106	53 - 149	1	30
10:2 FTS			24.1	26.1		ng/g		108	42 - 142	10	30
Perfluoropentanesulfonic acid			23.5	22.6		ng/g		96	65 - 145	1	30
Perfluoroheptanesulfonic acid			23.8	25.5		ng/g		107	67 - 138	5	30
Perfluorononanesulfonic acid			24.0	25.1		ng/g		104	63 - 143	8	30
Perfluorodecanesulfonic acid			24.1	24.4		ng/g		101	60 - 142	8	30
Perfluorododecanesulfonic acid (PFDoS)			24.2	25.8		ng/g		107	52 - 145	6	30
Perfluorooctanesulfonamide			25.0	26.7		ng/g		107	52 - 132	2	30
Perfluorohexadecanoic acid			25.0	25.3		ng/g		101	44 - 161	4	30
Perfluorooctadecanoic acid			25.0	24.6		ng/g		99	16 - 175	8	30
Perfluorobutanoic acid			25.0	25.0		ng/g		100	50 - 185	1	30
Perfluoropentanoic acid			25.0	26.1		ng/g		104	69 - 144	0	30
NMeFOSE			25.0	26.5		ng/g		106	47 - 138	1	30
NMeFOSA			25.0	23.2		ng/g		93	43 - 134	1	30
NEtFOSE			25.0	26.2		ng/g		105	46 - 134	3	30
NEtFOSA			25.0	24.7		ng/g		99	48 - 130	3	30
HFPODA			25.0	25.8		ng/g		103	29 - 162	10	30
DONA			23.6	25.1		ng/g		106	48 - 155	1	30
9Cl-PF3ONS			23.3	24.8		ng/g		107	48 - 146	7	30
11Cl-PF3OUdS			23.3	23.1		ng/g		99	45 - 145	2	30
Perfluorododecanoic acid			25.0	27.3		ng/g		109	60 - 147	2	30
4:2 Fluorotelomer sulfonic acid			23.4	21.9		ng/g		94	55 - 132	7	30
Perfluoroundecanoic acid			25.0	24.9		ng/g		99	62 - 144	3	30
6:2 Fluorotelomer sulfonic acid			23.7	21.9		ng/g		92	53 - 137	16	30
8:2 Fluorotelomer sulfonic acid			24.0	23.1		ng/g		97	50 - 147	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*89*		*10 - 169*
M2-8:2 FTS	*86*		*10 - 178*
M2-6:2 FTS	*91*		*10 - 182*
13C5 PFHxA	*85*		*11 - 138*
13C4 PFHpA	*86*		*15 - 139*
13C8 PFOA	*92*		*21 - 133*
13C9 PFNA	*85*		*15 - 145*
13C6 PFDA	*87*		*21 - 134*
13C7 PFUnA	*83*		*15 - 138*
13C2-PFDoDA	*88*		*28 - 126*
13C2 PFTeDA	*87*		*10 - 138*
13C3 PFBS	*90*		*23 - 130*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-175962/3-B
Matrix: Solid
Analysis Batch: 176297

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 175962

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C3 PFHxS	87		24 - 136
13C8 PFOS	87		31 - 130
d3-NMeFOSAA	75		10 - 172
d5-NEtFOSAA	80		10 - 176
13C8 FOSA	84		25 - 135
13C4 PFBA	83		12 - 137
13C5 PFPeA	84		12 - 135
d7-N-MeFOSE-M	87		10 - 152
d3-NMePFOSA	86		10 - 148
d9-N-EtFOSE-M	87		10 - 157
d5-NEtPFOSA	88		10 - 151
13C3 HFPO-DA	81		10 - 152

Lab Sample ID: MB 410-177902/1-D
Matrix: Solid
Analysis Batch: 178062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
10:2 FTS	<0.60		2.0	0.60	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
NMeFOSE	<0.50		2.0	0.50	ng/g		10/01/21 16:57	10/02/21 11:21	1
NMeFOSA	<0.50		2.0	0.50	ng/g		10/01/21 16:57	10/02/21 11:21	1
NEtFOSE	<0.50		2.0	0.50	ng/g		10/01/21 16:57	10/02/21 11:21	1
NEtFOSA	<0.50		2.0	0.50	ng/g		10/01/21 16:57	10/02/21 11:21	1
HFPODA	<0.40		2.0	0.40	ng/g		10/01/21 16:57	10/02/21 11:21	1
DONA	<0.20		3.0	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-177902/1-D
Matrix: Solid
Analysis Batch: 178062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		10/01/21 16:57	10/02/21 11:21	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		10/01/21 16:57	10/02/21 11:21	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		10/01/21 16:57	10/02/21 11:21	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		10/01/21 16:57	10/02/21 11:21	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 169*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
M2-8:2 FTS	*102*		*10 - 178*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
M2-6:2 FTS	*88*		*10 - 182*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C5 PFHxA	*90*		*11 - 138*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C4 PFHpA	*96*		*15 - 139*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C8 PFOA	*96*		*21 - 133*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C9 PFNA	*101*		*15 - 145*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C6 PFDA	*98*		*21 - 134*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C7 PFUnA	*94*		*15 - 138*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C2-PFDoDA	*94*		*28 - 126*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C2 PFTeDA	*84*		*10 - 138*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C3 PFBS	*113*		*23 - 130*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C3 PFHxS	*97*		*24 - 136*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C8 PFOS	*104*		*31 - 130*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
d3-NMeFOSAA	*82*		*10 - 172*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
d5-NEtFOSAA	*81*		*10 - 176*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C8 FOSA	*98*		*25 - 135*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C4 PFBA	*94*		*12 - 137*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C5 PFPeA	*93*		*12 - 135*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
d7-N-MeFOSE-M	*101*		*10 - 152*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
d3-NMePFOSA	*92*		*10 - 148*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
d9-N-EtFOSE-M	*108*		*10 - 157*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
d5-NEtPFOSA	*95*		*10 - 151*	*10/01/21 16:57*	*10/02/21 11:21*	*1*
13C3 HFPO-DA	*96*		*10 - 152*	*10/01/21 16:57*	*10/02/21 11:21*	*1*

Lab Sample ID: LCS 410-177902/2-D
Matrix: Solid
Analysis Batch: 178062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.0	24.0		ng/g		96	61 - 147
Perfluoroheptanoic acid	25.0	23.8		ng/g		95	61 - 151
Perfluorooctanoic acid	25.0	23.2		ng/g		93	62 - 144
Perfluorononanoic acid	25.0	23.0		ng/g		92	62 - 148
Perfluorodecanoic acid	25.0	21.6		ng/g		86	62 - 142
Perfluorotridecanoic acid	25.0	23.7		ng/g		95	57 - 152
Perfluorotetradecanoic acid	25.0	23.3		ng/g		93	60 - 147
Perfluorobutanesulfonic acid	22.1	19.7		ng/g		89	62 - 137
Perfluorohexanesulfonic acid	22.8	20.6		ng/g		90	57 - 135
Perfluorooctanesulfonic acid	23.1	20.6		ng/g		89	48 - 134
NEtFOSAA	25.0	22.9		ng/g		92	50 - 140

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-177902/2-D
Matrix: Solid
Analysis Batch: 178062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
NMeFOSAA	25.0	22.0		ng/g		88	53 - 149
10:2 FTS	24.1	21.1		ng/g		87	42 - 142
Perfluoropentanesulfonic acid	23.5	22.1		ng/g		94	65 - 145
Perfluoroheptanesulfonic acid	23.8	24.0		ng/g		101	67 - 138
Perfluorononanesulfonic acid	24.0	21.7		ng/g		90	63 - 143
Perfluorodecanesulfonic acid	24.1	22.9		ng/g		95	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	26.0		ng/g		107	52 - 145
Perfluorooctanesulfonamide	25.0	24.5		ng/g		98	52 - 132
Perfluorohexadecanoic acid	25.0	22.4		ng/g		90	44 - 161
Perfluorooctadecanoic acid	25.0	19.3		ng/g		77	16 - 175
Perfluorobutanoic acid	25.0	22.5		ng/g		90	50 - 185
Perfluoropentanoic acid	25.0	24.6		ng/g		98	69 - 144
NMeFOSE	25.0	26.3		ng/g		105	47 - 138
NMeFOSA	25.0	22.3		ng/g		89	43 - 134
NEtFOSE	25.0	23.5		ng/g		94	46 - 134
NEtFOSA	25.0	23.4		ng/g		94	48 - 130
HFPODA	25.0	22.9		ng/g		92	29 - 162
DONA	23.6	23.6		ng/g		100	48 - 155
9Cl-PF3ONS	23.3	20.9		ng/g		90	48 - 146
11Cl-PF3OUdS	23.3	21.2		ng/g		91	45 - 145
Perfluorododecanoic acid	25.0	24.0		ng/g		96	60 - 147
4:2 Fluorotelomer sulfonic acid	23.4	20.9		ng/g		90	55 - 132
Perfluoroundecanoic acid	25.0	22.5		ng/g		90	62 - 144
6:2 Fluorotelomer sulfonic acid	23.7	23.2		ng/g		98	53 - 137
8:2 Fluorotelomer sulfonic acid	24.0	21.1		ng/g		88	50 - 147

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*91*		*10 - 169*
M2-8:2 FTS	*104*		*10 - 178*
M2-6:2 FTS	*94*		*10 - 182*
13C5 PFHxA	*95*		*11 - 138*
13C4 PFHpA	*98*		*15 - 139*
13C8 PFOA	*99*		*21 - 133*
13C9 PFNA	*101*		*15 - 145*
13C6 PFDA	*104*		*21 - 134*
13C7 PFUnA	*104*		*15 - 138*
13C2-PFDoDA	*102*		*28 - 126*
13C2 PFTeDA	*94*		*10 - 138*
13C3 PFBS	*115*		*23 - 130*
13C3 PFHxS	*103*		*24 - 136*
13C8 PFOS	*102*		*31 - 130*
d3-NMeFOSAA	*94*		*10 - 172*
d5-NEtFOSAA	*96*		*10 - 176*
13C8 FOSA	*107*		*25 - 135*
13C4 PFBA	*97*		*12 - 137*
13C5 PFPeA	*100*		*12 - 135*
d7-N-MeFOSE-M	*107*		*10 - 152*
d3-NMePFOSA	*111*		*10 - 148*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-177902/2-D
Matrix: Solid
Analysis Batch: 178062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177902

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	116		10 - 157
d5-NEtPFOSA	105		10 - 151
13C3 HFPO-DA	102		10 - 152

Lab Sample ID: LCSD 410-177902/3-D
Matrix: Solid
Analysis Batch: 178062

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 177902

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.0	25.5		ng/g		102	61 - 147	6	30
Perfluoroheptanoic acid			25.0	24.1		ng/g		97	61 - 151	1	30
Perfluorooctanoic acid			25.0	22.8		ng/g		91	62 - 144	2	30
Perfluorononanoic acid			25.0	23.8		ng/g		95	62 - 148	3	30
Perfluorodecanoic acid			25.0	22.9		ng/g		92	62 - 142	6	30
Perfluorotridecanoic acid			25.0	25.7		ng/g		103	57 - 152	8	30
Perfluorotetradecanoic acid			25.0	24.4		ng/g		98	60 - 147	5	30
Perfluorobutanesulfonic acid			22.1	21.3		ng/g		96	62 - 137	8	30
Perfluorohexanesulfonic acid			22.8	21.7		ng/g		95	57 - 135	5	30
Perfluorooctanesulfonic acid			23.1	22.4		ng/g		97	48 - 134	9	30
NEtFOSAA			25.0	24.7		ng/g		99	50 - 140	7	30
NMeFOSAA			25.0	24.1		ng/g		96	53 - 149	9	30
10:2 FTS			24.1	21.3		ng/g		88	42 - 142	1	30
Perfluoropentanesulfonic acid			23.5	23.9		ng/g		102	65 - 145	8	30
Perfluoroheptanesulfonic acid			23.8	24.6		ng/g		103	67 - 138	2	30
Perfluorononanesulfonic acid			24.0	23.5		ng/g		98	63 - 143	8	30
Perfluorodecanesulfonic acid			24.1	24.8		ng/g		103	60 - 142	8	30
Perfluorododecanesulfonic acid (PFDoS)			24.2	28.8		ng/g		119	52 - 145	10	30
Perfluorooctanesulfonamide			25.0	25.4		ng/g		102	52 - 132	4	30
Perfluorohexadecanoic acid			25.0	23.4		ng/g		94	44 - 161	4	30
Perfluorooctadecanoic acid			25.0	20.0		ng/g		80	16 - 175	4	30
Perfluorobutanoic acid			25.0	24.1		ng/g		96	50 - 185	7	30
Perfluoropentanoic acid			25.0	26.5		ng/g		106	69 - 144	7	30
NMeFOSE			25.0	29.0		ng/g		116	47 - 138	10	30
NMeFOSA			25.0	24.9		ng/g		100	43 - 134	11	30
NEtFOSE			25.0	24.2		ng/g		97	46 - 134	3	30
NEtFOSA			25.0	24.0		ng/g		96	48 - 130	2	30
HFPODA			25.0	24.0		ng/g		96	29 - 162	5	30
DONA			23.6	25.1		ng/g		106	48 - 155	6	30
9Cl-PF3ONS			23.3	22.4		ng/g		96	48 - 146	7	30
11Cl-PF3OUdS			23.3	21.2		ng/g		91	45 - 145	0	30
Perfluorododecanoic acid			25.0	26.0		ng/g		104	60 - 147	8	30
4:2 Fluorotelomer sulfonic acid			23.4	20.9		ng/g		90	55 - 132	0	30
Perfluoroundecanoic acid			25.0	25.2		ng/g		101	62 - 144	11	30
6:2 Fluorotelomer sulfonic acid			23.7	23.7		ng/g		100	53 - 137	2	30
8:2 Fluorotelomer sulfonic acid			24.0	22.8		ng/g		95	50 - 147	8	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-4:2 FTS	91		10 - 169

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-177902/3-D
Matrix: Solid
Analysis Batch: 178062

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 177902

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-8:2 FTS	106		10 - 178
M2-6:2 FTS	96		10 - 182
13C5 PFHxA	93		11 - 138
13C4 PFHpA	98		15 - 139
13C8 PFOA	101		21 - 133
13C9 PFNA	101		15 - 145
13C6 PFDA	104		21 - 134
13C7 PFUnA	96		15 - 138
13C2-PFDoDA	95		28 - 126
13C2 PFTeDA	92		10 - 138
13C3 PFBS	109		23 - 130
13C3 PFHxS	104		24 - 136
13C8 PFOS	99		31 - 130
d3-NMeFOSAA	95		10 - 172
d5-NEtFOSAA	98		10 - 176
13C8 FOSA	107		25 - 135
13C4 PFBA	97		12 - 137
13C5 PFPeA	98		12 - 135
d7-N-MeFOSE-M	96		10 - 152
d3-NMePFOSA	99		10 - 148
d9-N-EtFOSE-M	109		10 - 157
d5-NEtPFOSA	102		10 - 151
13C3 HFPO-DA	102		10 - 152

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-173391/1-A
Matrix: Water
Analysis Batch: 174018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluoroheptanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorooctanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorononanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorodecanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorotridecanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorotetradecanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorobutanesulfonic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorohexanesulfonic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorooctanesulfonic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
NEtFOSAA	<0.50		3.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
NMeFOSAA	<0.60		2.0	0.60	ng/L		09/20/21 17:27	09/23/21 04:02	1
10:2 FTS	<1.0		5.0	1.0	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluoropentanesulfonic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluoroheptanesulfonic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorononanesulfonic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorodecanesulfonic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-173391/1-A
Matrix: Water
Analysis Batch: 174018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.50		3.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorooctanesulfonamide	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorohexadecanoic acid	<1.0		3.0	1.0	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorooctadecanoic acid	<1.0		3.0	1.0	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorobutanoic acid	<2.0		5.0	2.0	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluoropentanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
NMeFOSE	<1.0		3.0	1.0	ng/L		09/20/21 17:27	09/23/21 04:02	1
NMeFOSA	<1.0		3.0	1.0	ng/L		09/20/21 17:27	09/23/21 04:02	1
NEtFOSE	<1.0		3.0	1.0	ng/L		09/20/21 17:27	09/23/21 04:02	1
NEtFOSA	<1.0		5.0	1.0	ng/L		09/20/21 17:27	09/23/21 04:02	1
HFPODA	<0.50		3.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
DONA	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
9Cl-PF3ONS	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
11Cl-PF3OUdS	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluorododecanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
4:2 Fluorotelomer sulfonic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
Perfluoroundecanoic acid	<0.50		2.0	0.50	ng/L		09/20/21 17:27	09/23/21 04:02	1
6:2 Fluorotelomer sulfonic acid	<2.0		5.0	2.0	ng/L		09/20/21 17:27	09/23/21 04:02	1
8:2 Fluorotelomer sulfonic acid	<1.0		3.0	1.0	ng/L		09/20/21 17:27	09/23/21 04:02	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*20 - 187*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
M2-8:2 FTS	*96*		*34 - 182*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
M2-6:2 FTS	*87*		*29 - 189*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C5 PFHxA	*86*		*31 - 142*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C4 PFHpA	*89*		*30 - 144*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C8 PFOA	*89*		*49 - 127*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C9 PFNA	*90*		*47 - 136*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C6 PFDA	*90*		*47 - 128*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C7 PFUnA	*80*		*40 - 135*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C2-PFDoDA	*84*		*28 - 136*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C2 PFTeDA	*88*		*10 - 144*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C3 PFBS	*82*		*19 - 178*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C3 PFHxS	*83*		*32 - 145*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C8 PFOS	*92*		*49 - 126*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
d3-NMeFOSAA	*105*		*32 - 151*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
d5-NEtFOSAA	*104*		*37 - 164*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C8 FOSA	*76*		*10 - 143*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C4 PFBA	*85*		*41 - 132*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C5 PFPeA	*82*		*33 - 155*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
d7-N-MeFOSE-M	*78*		*10 - 143*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
d3-NMePFOSA	*71*		*10 - 107*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
d9-N-EtFOSE-M	*78*		*10 - 142*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
d5-NEtPFOSA	*67*		*10 - 108*	*09/20/21 17:27*	*09/23/21 04:02*	*1*
13C3 HFPO-DA	*70*		*20 - 153*	*09/20/21 17:27*	*09/23/21 04:02*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-173391/2-A
Matrix: Water
Analysis Batch: 174018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 173391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.6	30.2		ng/L		118	66 - 137
Perfluoroheptanoic acid	25.6	30.2		ng/L		118	66 - 141
Perfluorooctanoic acid	25.6	29.2		ng/L		114	65 - 136
Perfluorononanoic acid	25.6	30.0		ng/L		117	65 - 140
Perfluorodecanoic acid	25.6	27.7		ng/L		108	63 - 137
Perfluorotridecanoic acid	25.6	29.6		ng/L		116	58 - 146
Perfluorotetradecanoic acid	25.6	30.1		ng/L		117	64 - 141
Perfluorobutanesulfonic acid	22.7	24.1		ng/L		106	65 - 132
Perfluorohexanesulfonic acid	23.3	26.8		ng/L		115	60 - 128
Perfluorooctanesulfonic acid	23.7	25.1		ng/L		106	51 - 126
NEtFOSAA	25.6	27.3		ng/L		107	54 - 134
NMeFOSAA	25.6	25.9		ng/L		101	58 - 143
10:2 FTS	24.7	30.1		ng/L		122	44 - 141
Perfluoropentanesulfonic acid	24.0	28.9		ng/L		120	71 - 136
Perfluoroheptanesulfonic acid	24.4	36.0	*+	ng/L		148	67 - 135
Perfluorononanesulfonic acid	24.6	26.8		ng/L		109	67 - 137
Perfluorodecanesulfonic acid	24.7	29.2		ng/L		118	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	24.8	30.7		ng/L		124	54 - 136
Perfluorooctanesulfonamide	25.6	30.7		ng/L		120	55 - 130
Perfluorohexadecanoic acid	25.6	30.3		ng/L		119	52 - 149
Perfluorooctadecanoic acid	25.6	30.0		ng/L		117	32 - 167
Perfluorobutanoic acid	25.6	26.8		ng/L		105	62 - 156
Perfluoropentanoic acid	25.6	32.7		ng/L		128	72 - 139
NMeFOSE	25.6	31.5		ng/L		123	52 - 131
NMeFOSA	25.6	31.2		ng/L		122	49 - 141
NEtFOSE	25.6	27.3		ng/L		107	49 - 128
NEtFOSA	25.6	30.0		ng/L		117	50 - 136
HFPODA	25.6	24.9		ng/L		97	37 - 147
DONA	24.2	26.9		ng/L		111	49 - 158
9Cl-PF3ONS	23.8	25.5		ng/L		107	52 - 135
11Cl-PF3OUdS	23.8	26.6		ng/L		112	45 - 134
Perfluorododecanoic acid	25.6	29.5		ng/L		115	63 - 140
4:2 Fluorotelomer sulfonic acid	23.9	25.4		ng/L		106	59 - 130
Perfluoroundecanoic acid	25.6	31.4		ng/L		123	62 - 138
6:2 Fluorotelomer sulfonic acid	24.3	30.8		ng/L		127	57 - 137
8:2 Fluorotelomer sulfonic acid	24.5	32.0		ng/L		130	56 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*95*		*20 - 187*
M2-8:2 FTS	*96*		*34 - 182*
M2-6:2 FTS	*86*		*29 - 189*
13C5 PFHxA	*84*		*31 - 142*
13C4 PFHpA	*88*		*30 - 144*
13C8 PFOA	*89*		*49 - 127*
13C9 PFNA	*96*		*47 - 136*
13C6 PFDA	*91*		*47 - 128*
13C7 PFUnA	*88*		*40 - 135*
13C2-PFDoDA	*88*		*28 - 136*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-173391/2-A
Matrix: Water
Analysis Batch: 174018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 173391

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFTeDA	*93*		*10 - 144*
13C3 PFBS	*85*		*19 - 178*
13C3 PFHxS	*78*		*32 - 145*
13C8 PFOS	*95*		*49 - 126*
d3-NMeFOSAA	*110*		*32 - 151*
d5-NEtFOSAA	*108*		*37 - 164*
13C8 FOSA	*77*		*10 - 143*
13C4 PFBA	*90*		*41 - 132*
13C5 PFPeA	*87*		*33 - 155*
d7-N-MeFOSE-M	*79*		*10 - 143*
d3-NMePFOSA	*66*		*10 - 107*
d9-N-EtFOSE-M	*83*		*10 - 142*
d5-NEtPFOSA	*68*		*10 - 108*
13C3 HFPO-DA	*86*		*20 - 153*

Lab Sample ID: LCSD 410-173391/3-A
Matrix: Water
Analysis Batch: 174018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173391

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	31.6		ng/L		123	66 - 137	4	30
Perfluoroheptanoic acid			25.6	31.4		ng/L		123	66 - 141	4	30
Perfluorooctanoic acid			25.6	29.7		ng/L		116	65 - 136	2	30
Perfluorononanoic acid			25.6	31.5		ng/L		123	65 - 140	5	30
Perfluorodecanoic acid			25.6	27.9		ng/L		109	63 - 137	1	30
Perfluorotridecanoic acid			25.6	30.5		ng/L		119	58 - 146	3	30
Perfluorotetradecanoic acid			25.6	31.1		ng/L		121	64 - 141	3	30
Perfluorobutanesulfonic acid			22.7	25.4		ng/L		112	65 - 132	6	30
Perfluorohexanesulfonic acid			23.3	27.5		ng/L		118	60 - 128	3	30
Perfluorooctanesulfonic acid			23.7	27.4		ng/L		116	51 - 126	9	30
NEtFOSAA			25.6	28.3		ng/L		110	54 - 134	3	30
NMeFOSAA			25.6	27.6		ng/L		108	58 - 143	7	30
10:2 FTS			24.7	33.1		ng/L		134	44 - 141	10	30
Perfluoropentanesulfonic acid			24.0	30.3		ng/L		126	71 - 136	5	30
Perfluoroheptanesulfonic acid			24.4	36.2	*+	ng/L		148	67 - 135	0	30
Perfluorononanesulfonic acid			24.6	28.0		ng/L		114	67 - 137	4	30
Perfluorodecanesulfonic acid			24.7	31.3		ng/L		127	61 - 134	7	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	33.3		ng/L		134	54 - 136	8	30
Perfluorooctanesulfonamide			25.6	30.8		ng/L		120	55 - 130	0	30
Perfluorohexadecanoic acid			25.6	32.1		ng/L		125	52 - 149	6	30
Perfluorooctadecanoic acid			25.6	30.5		ng/L		119	32 - 167	1	30
Perfluorobutanoic acid			25.6	28.0		ng/L		109	62 - 156	4	30
Perfluoropentanoic acid			25.6	34.1		ng/L		133	72 - 139	4	30
NMeFOSE			25.6	31.4		ng/L		123	52 - 131	0	30
NMeFOSA			25.6	35.2		ng/L		138	49 - 141	12	30
NEtFOSE			25.6	29.6		ng/L		116	49 - 128	8	30
NEtFOSA			25.6	31.4		ng/L		123	50 - 136	5	30
HFPODA			25.6	23.3		ng/L		91	37 - 147	6	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-173391/3-A
Matrix: Water
Analysis Batch: 174018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173391

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DONA			24.2	28.3		ng/L		117	49 - 158	5	30
9Cl-PF3ONS			23.8	27.9		ng/L		117	52 - 135	9	30
11Cl-PF3OUdS			23.8	28.7		ng/L		121	45 - 134	8	30
Perfluorododecanoic acid			25.6	31.9		ng/L		125	63 - 140	8	30
4:2 Fluorotelomer sulfonic acid			23.9	28.9		ng/L		121	59 - 130	13	30
Perfluoroundecanoic acid			25.6	33.0		ng/L		129	62 - 138	5	30
6:2 Fluorotelomer sulfonic acid			24.3	29.7		ng/L		122	57 - 137	4	30
8:2 Fluorotelomer sulfonic acid			24.5	33.3		ng/L		136	56 - 140	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*93*		*20 - 187*
M2-8:2 FTS	*94*		*34 - 182*
M2-6:2 FTS	*94*		*29 - 189*
13C5 PFHxA	*85*		*31 - 142*
13C4 PFHpA	*88*		*30 - 144*
13C8 PFOA	*91*		*49 - 127*
13C9 PFNA	*98*		*47 - 136*
13C6 PFDA	*93*		*47 - 128*
13C7 PFUnA	*86*		*40 - 135*
13C2-PFDoDA	*89*		*28 - 136*
13C2 PFTeDA	*91*		*10 - 144*
13C3 PFBS	*84*		*19 - 178*
13C3 PFHxS	*79*		*32 - 145*
13C8 PFOS	*95*		*49 - 126*
d3-NMeFOSAA	*109*		*32 - 151*
d5-NEtFOSAA	*107*		*37 - 164*
13C8 FOSA	*79*		*10 - 143*
13C4 PFBA	*89*		*41 - 132*
13C5 PFPeA	*87*		*33 - 155*
d7-N-MeFOSE-M	*79*		*10 - 143*
d3-NMePFOSA	*61*		*10 - 107*
d9-N-EtFOSE-M	*79*		*10 - 142*
d5-NEtPFOSA	*64*		*10 - 108*
13C3 HFPO-DA	*98*		*20 - 153*

LCMS

Prep Batch: 172968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-1	SP-5-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-2	SP-5-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-3	SP-6-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-4	SP-6-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-5	SP-7-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-6	SP-7-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-7	SP-8-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-8	SP-8-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-9	SP-9-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-10	SP-9-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-11	SP-10-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-13	SP-11-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-16	SP-12-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-19	SP-13-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-20	SP-13-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-21	SP-14-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-22	SP-14-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-23	SP-15-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-24	SP-15-S-03-04	Total/NA	Solid	537 (mod)	
MB 410-172968/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-172968/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-172968/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 172978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-1	SP-5-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-2	SP-5-S-03-04	Total/NA	Solid	Extract Aliquot	172968
410-55513-3	SP-6-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-4	SP-6-S-03-04	Total/NA	Solid	Extract Aliquot	172968
410-55513-5	SP-7-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-6	SP-7-S-03-04	Total/NA	Solid	Extract Aliquot	172968
410-55513-7	SP-8-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-8	SP-8-S-03-04	Total/NA	Solid	Extract Aliquot	172968
410-55513-9	SP-9-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-10	SP-9-S-03-04	Total/NA	Solid	Extract Aliquot	172968
410-55513-11	SP-10-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-13	SP-11-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-16	SP-12-S-03-04	Total/NA	Solid	Extract Aliquot	172968
410-55513-19	SP-13-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-20	SP-13-S-03-04	Total/NA	Solid	Extract Aliquot	172968
410-55513-21	SP-14-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-22	SP-14-S-03-04	Total/NA	Solid	Extract Aliquot	172968
410-55513-23	SP-15-S-01-02	Total/NA	Solid	Extract Aliquot	172968
410-55513-24	SP-15-S-03-04	Total/NA	Solid	Extract Aliquot	172968
MB 410-172968/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	172968
LCS 410-172968/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	172968
LCSD 410-172968/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	172968

Prep Batch: 173391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-17	FB-09152021	Total/NA	Water	EPA 537 (mod)	

LCMS (Continued)

Prep Batch: 173391 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-18	EB-09152021	Total/NA	Water	EPA 537 (mod)	
MB 410-173391/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-173391/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-173391/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 174018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-17	FB-09152021	Total/NA	Water	EPA 537 (Mod)	173391
410-55513-18	EB-09152021	Total/NA	Water	EPA 537 (Mod)	173391
MB 410-173391/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	173391
LCS 410-173391/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	173391
LCSD 410-173391/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	173391

Analysis Batch: 174137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-1	SP-5-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-2	SP-5-S-03-04	Total/NA	Solid	537 IDA	172978
410-55513-3	SP-6-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-4	SP-6-S-03-04	Total/NA	Solid	537 IDA	172978
410-55513-5	SP-7-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-6	SP-7-S-03-04	Total/NA	Solid	537 IDA	172978
410-55513-7	SP-8-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-8	SP-8-S-03-04	Total/NA	Solid	537 IDA	172978
410-55513-9	SP-9-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-10	SP-9-S-03-04	Total/NA	Solid	537 IDA	172978
410-55513-11	SP-10-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-13	SP-11-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-16	SP-12-S-03-04	Total/NA	Solid	537 IDA	172978
410-55513-19	SP-13-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-20	SP-13-S-03-04	Total/NA	Solid	537 IDA	172978
410-55513-21	SP-14-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-22	SP-14-S-03-04	Total/NA	Solid	537 IDA	172978
410-55513-23	SP-15-S-01-02	Total/NA	Solid	537 IDA	172978
410-55513-24	SP-15-S-03-04	Total/NA	Solid	537 IDA	172978
MB 410-172968/1-B	Method Blank	Total/NA	Solid	537 IDA	172978
LCS 410-172968/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	172978
LCSD 410-172968/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	172978

Prep Batch: 174857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-1 - RE	SP-5-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-2 - RE	SP-5-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-3 - RE	SP-6-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-4 - RE	SP-6-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-5 - RE	SP-7-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-7 - RE	SP-8-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-8 - RE	SP-8-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-10 - RE	SP-9-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-11 - RE	SP-10-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-16 - RE	SP-12-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-19 - RE	SP-13-S-01-02	Total/NA	Solid	537 (mod)	

LCMS (Continued)

Prep Batch: 174857 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-21 - RE	SP-14-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-22 - RE	SP-14-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-23 - RE	SP-15-S-01-02	Total/NA	Solid	537 (mod)	
410-55513-24 - RE	SP-15-S-03-04	Total/NA	Solid	537 (mod)	
MB 410-174857/1-C	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-174857/2-C	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-174857/3-C	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 174888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-1 - RE	SP-5-S-01-02	Total/NA	Solid	Extract Aliquot	174857
410-55513-2 - RE	SP-5-S-03-04	Total/NA	Solid	Extract Aliquot	174857
410-55513-3 - RE	SP-6-S-01-02	Total/NA	Solid	Extract Aliquot	174857
410-55513-4 - RE	SP-6-S-03-04	Total/NA	Solid	Extract Aliquot	174857
410-55513-5 - RE	SP-7-S-01-02	Total/NA	Solid	Extract Aliquot	174857
410-55513-7 - RE	SP-8-S-01-02	Total/NA	Solid	Extract Aliquot	174857
410-55513-8 - RE	SP-8-S-03-04	Total/NA	Solid	Extract Aliquot	174857
410-55513-10 - RE	SP-9-S-03-04	Total/NA	Solid	Extract Aliquot	174857
410-55513-11 - RE	SP-10-S-01-02	Total/NA	Solid	Extract Aliquot	174857
410-55513-16 - RE	SP-12-S-03-04	Total/NA	Solid	Extract Aliquot	174857
410-55513-19 - RE	SP-13-S-01-02	Total/NA	Solid	Extract Aliquot	174857
410-55513-21 - RE	SP-14-S-01-02	Total/NA	Solid	Extract Aliquot	174857
410-55513-22 - RE	SP-14-S-03-04	Total/NA	Solid	Extract Aliquot	174857
410-55513-23 - RE	SP-15-S-01-02	Total/NA	Solid	Extract Aliquot	174857
410-55513-24 - RE	SP-15-S-03-04	Total/NA	Solid	Extract Aliquot	174857
MB 410-174857/1-C	Method Blank	Total/NA	Solid	Extract Aliquot	174857
LCS 410-174857/2-C	Lab Control Sample	Total/NA	Solid	Extract Aliquot	174857
LCSD 410-174857/3-C	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	174857

Prep Batch: 175962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-12	SP-10-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-14	SP-11-S-03-04	Total/NA	Solid	537 (mod)	
MB 410-175962/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-175962/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-175962/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 175976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-12	SP-10-S-03-04	Total/NA	Solid	Extract Aliquot	175962
410-55513-14	SP-11-S-03-04	Total/NA	Solid	Extract Aliquot	175962
MB 410-175962/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	175962
LCS 410-175962/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	175962
LCSD 410-175962/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	175962

Analysis Batch: 176297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-12	SP-10-S-03-04	Total/NA	Solid	537 IDA	175976
410-55513-14	SP-11-S-03-04	Total/NA	Solid	537 IDA	175976
MB 410-175962/1-B	Method Blank	Total/NA	Solid	537 IDA	175976
LCS 410-175962/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	175976

LCMS (Continued)

Analysis Batch: 176297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-175962/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	175976

Analysis Batch: 176626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-1 - RE	SP-5-S-01-02	Total/NA	Solid	537 IDA	174888
410-55513-2 - RE	SP-5-S-03-04	Total/NA	Solid	537 IDA	174888
410-55513-3 - RE	SP-6-S-01-02	Total/NA	Solid	537 IDA	174888
410-55513-4 - RE	SP-6-S-03-04	Total/NA	Solid	537 IDA	174888
410-55513-5 - RE	SP-7-S-01-02	Total/NA	Solid	537 IDA	174888
410-55513-7 - RE	SP-8-S-01-02	Total/NA	Solid	537 IDA	174888
410-55513-8 - RE	SP-8-S-03-04	Total/NA	Solid	537 IDA	174888
410-55513-10 - RE	SP-9-S-03-04	Total/NA	Solid	537 IDA	174888
410-55513-11 - RE	SP-10-S-01-02	Total/NA	Solid	537 IDA	174888
410-55513-16 - RE	SP-12-S-03-04	Total/NA	Solid	537 IDA	174888
410-55513-19 - RE	SP-13-S-01-02	Total/NA	Solid	537 IDA	174888
410-55513-21 - RE	SP-14-S-01-02	Total/NA	Solid	537 IDA	174888
410-55513-22 - RE	SP-14-S-03-04	Total/NA	Solid	537 IDA	174888
410-55513-23 - RE	SP-15-S-01-02	Total/NA	Solid	537 IDA	174888
410-55513-24 - RE	SP-15-S-03-04	Total/NA	Solid	537 IDA	174888
MB 410-174857/1-C	Method Blank	Total/NA	Solid	537 IDA	174888
LCS 410-174857/2-C	Lab Control Sample	Total/NA	Solid	537 IDA	174888
LCSD 410-174857/3-C	Lab Control Sample Dup	Total/NA	Solid	537 IDA	174888

Prep Batch: 177902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-12 - RE	SP-10-S-03-04	Total/NA	Solid	537 (mod)	
410-55513-15	SP-12-S-01-02	Total/NA	Solid	537 (mod)	
MB 410-177902/1-D	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-177902/2-D	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-177902/3-D	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 177967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-12 - RE	SP-10-S-03-04	Total/NA	Solid	Extract Aliquot	177902
410-55513-15	SP-12-S-01-02	Total/NA	Solid	Extract Aliquot	177902
MB 410-177902/1-D	Method Blank	Total/NA	Solid	Extract Aliquot	177902
LCS 410-177902/2-D	Lab Control Sample	Total/NA	Solid	Extract Aliquot	177902
LCSD 410-177902/3-D	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	177902

Analysis Batch: 178062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-12 - RE	SP-10-S-03-04	Total/NA	Solid	537 IDA	177967
410-55513-15	SP-12-S-01-02	Total/NA	Solid	537 IDA	177967
MB 410-177902/1-D	Method Blank	Total/NA	Solid	537 IDA	177967
LCS 410-177902/2-D	Lab Control Sample	Total/NA	Solid	537 IDA	177967
LCSD 410-177902/3-D	Lab Control Sample Dup	Total/NA	Solid	537 IDA	177967

General Chemistry

Analysis Batch: 173095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-1	SP-5-S-01-02	Total/NA	Solid	Moisture	
410-55513-2	SP-5-S-03-04	Total/NA	Solid	Moisture	
410-55513-4	SP-6-S-03-04	Total/NA	Solid	Moisture	
410-55513-7	SP-8-S-01-02	Total/NA	Solid	Moisture	
410-55513-8	SP-8-S-03-04	Total/NA	Solid	Moisture	
410-55513-10	SP-9-S-03-04	Total/NA	Solid	Moisture	
410-55513-11	SP-10-S-01-02	Total/NA	Solid	Moisture	
410-55513-13	SP-11-S-01-02	Total/NA	Solid	Moisture	
410-55513-16	SP-12-S-03-04	Total/NA	Solid	Moisture	

Analysis Batch: 173121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55513-3	SP-6-S-01-02	Total/NA	Solid	Moisture	
410-55513-5	SP-7-S-01-02	Total/NA	Solid	Moisture	
410-55513-6	SP-7-S-03-04	Total/NA	Solid	Moisture	
410-55513-9	SP-9-S-01-02	Total/NA	Solid	Moisture	
410-55513-12	SP-10-S-03-04	Total/NA	Solid	Moisture	
410-55513-14	SP-11-S-03-04	Total/NA	Solid	Moisture	
410-55513-15	SP-12-S-01-02	Total/NA	Solid	Moisture	
410-55513-19	SP-13-S-01-02	Total/NA	Solid	Moisture	
410-55513-20	SP-13-S-03-04	Total/NA	Solid	Moisture	
410-55513-21	SP-14-S-01-02	Total/NA	Solid	Moisture	
410-55513-22	SP-14-S-03-04	Total/NA	Solid	Moisture	
410-55513-23	SP-15-S-01-02	Total/NA	Solid	Moisture	
410-55513-24	SP-15-S-03-04	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-5-S-01-02
Date Collected: 09/15/21 11:30
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173095	09/20/21 08:54	UWC1	ELLE

Client Sample ID: SP-5-S-01-02
Date Collected: 09/15/21 11:30
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-1
Matrix: Solid
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 19:51	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 13:01	JVK6	ELLE

Client Sample ID: SP-5-S-03-04
Date Collected: 09/15/21 11:35
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173095	09/20/21 08:54	UWC1	ELLE

Client Sample ID: SP-5-S-03-04
Date Collected: 09/15/21 11:35
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-2
Matrix: Solid
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 20:02	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 13:12	JVK6	ELLE

Client Sample ID: SP-6-S-01-02
Date Collected: 09/15/21 11:55
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-6-S-01-02

Lab Sample ID: 410-55513-3
Date Collected: 09/15/21 11:55
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 20:13	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 13:23	JVK6	ELLE

Client Sample ID: SP-6-S-03-04

Lab Sample ID: 410-55513-4
Date Collected: 09/15/21 12:05
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173095	09/20/21 08:54	UWC1	ELLE

Client Sample ID: SP-6-S-03-04

Lab Sample ID: 410-55513-4
Date Collected: 09/15/21 12:05
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 20:24	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 13:34	JVK6	ELLE

Client Sample ID: SP-7-S-01-02

Lab Sample ID: 410-55513-5
Date Collected: 09/15/21 12:40
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-7-S-01-02

Lab Sample ID: 410-55513-5
Date Collected: 09/15/21 12:40
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 20:36	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 13:45	JVK6	ELLE

Client Sample ID: SP-7-S-03-04
Lab Sample ID: 410-55513-6
Date Collected: 09/15/21 12:50
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-7-S-03-04
Lab Sample ID: 410-55513-6
Date Collected: 09/15/21 12:50
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 13:56	JVK6	ELLE

Client Sample ID: SP-8-S-01-02
Lab Sample ID: 410-55513-7
Date Collected: 09/15/21 13:05
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173095	09/20/21 08:54	UWC1	ELLE

Client Sample ID: SP-8-S-01-02
Lab Sample ID: 410-55513-7
Date Collected: 09/15/21 13:05
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 20:47	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 14:07	JVK6	ELLE

Client Sample ID: SP-8-S-03-04
Lab Sample ID: 410-55513-8
Date Collected: 09/15/21 13:15
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173095	09/20/21 08:54	UWC1	ELLE

Client Sample ID: SP-8-S-03-04
Lab Sample ID: 410-55513-8
Date Collected: 09/15/21 13:15
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 20:58	ZG8V	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-8-S-03-04
Lab Sample ID: 410-55513-8
Date Collected: 09/15/21 13:15
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 14:18	JVK6	ELLE

Client Sample ID: SP-9-S-01-02
Lab Sample ID: 410-55513-9
Date Collected: 09/15/21 13:30
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-9-S-01-02
Lab Sample ID: 410-55513-9
Date Collected: 09/15/21 13:30
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 14:29	JVK6	ELLE

Client Sample ID: SP-9-S-03-04
Lab Sample ID: 410-55513-10
Date Collected: 09/15/21 13:40
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173095	09/20/21 08:54	UWC1	ELLE

Client Sample ID: SP-9-S-03-04
Lab Sample ID: 410-55513-10
Date Collected: 09/15/21 13:40
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 21:09	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 14:40	JVK6	ELLE

Client Sample ID: SP-10-S-01-02
Lab Sample ID: 410-55513-11
Date Collected: 09/15/21 13:55
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173095	09/20/21 08:54	UWC1	ELLE

Client Sample ID: SP-10-S-01-02

Lab Sample ID: 410-55513-11
Date Collected: 09/15/21 13:55
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 21:20	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 15:03	JVK6	ELLE

Client Sample ID: SP-10-S-03-04

Lab Sample ID: 410-55513-12
Date Collected: 09/15/21 14:05
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-10-S-03-04

Lab Sample ID: 410-55513-12
Date Collected: 09/15/21 14:05
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			175962	09/27/21 21:55	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			175976	09/27/21 23:35	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	176297	09/28/21 20:59	MT26	ELLE
Total/NA	Prep	537 (mod)	RE		177902	10/01/21 16:57	GU2F	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		177967	10/01/21 21:08	GU2F	ELLE
Total/NA	Analysis	537 IDA	RE	1	178062	10/02/21 12:06	ZG8V	ELLE

Client Sample ID: SP-11-S-01-02

Lab Sample ID: 410-55513-13
Date Collected: 09/15/21 14:15
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173095	09/20/21 08:54	UWC1	ELLE

Client Sample ID: SP-11-S-01-02

Lab Sample ID: 410-55513-13
Date Collected: 09/15/21 14:15
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 15:14	JVK6	ELLE

Client Sample ID: SP-11-S-03-04
Lab Sample ID: 410-55513-14
Date Collected: 09/15/21 14:25
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-11-S-03-04
Lab Sample ID: 410-55513-14
Date Collected: 09/15/21 14:25
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			175962	09/27/21 21:55	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			175976	09/27/21 23:35	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	176297	09/28/21 21:09	MT26	ELLE

Client Sample ID: SP-12-S-01-02
Lab Sample ID: 410-55513-15
Date Collected: 09/15/21 14:40
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-12-S-01-02
Lab Sample ID: 410-55513-15
Date Collected: 09/15/21 14:40
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			177902	10/01/21 16:57	GU2F	ELLE
Total/NA	Cleanup	Extract Aliquot			177967	10/01/21 21:08	GU2F	ELLE
Total/NA	Analysis	537 IDA		1	178062	10/02/21 12:17	ZG8V	ELLE

Client Sample ID: SP-12-S-03-04
Lab Sample ID: 410-55513-16
Date Collected: 09/15/21 14:50
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173095	09/20/21 08:54	UWC1	ELLE

Client Sample ID: SP-12-S-03-04
Lab Sample ID: 410-55513-16
Date Collected: 09/15/21 14:50
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 21:31	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 15:25	JVK6	ELLE

Client Sample ID: FB-09152021

Lab Sample ID: 410-55513-17

Date Collected: 09/15/21 11:15

Matrix: Water

Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			173391	09/20/21 17:27	AVS6	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	174018	09/23/21 05:02	ZG8V	ELLE

Client Sample ID: EB-09152021

Lab Sample ID: 410-55513-18

Date Collected: 09/15/21 14:55

Matrix: Water

Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			173391	09/20/21 17:27	AVS6	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	174018	09/23/21 05:14	ZG8V	ELLE

Client Sample ID: SP-13-S-01-02

Lab Sample ID: 410-55513-19

Date Collected: 09/15/21 15:05

Matrix: Solid

Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-13-S-01-02

Lab Sample ID: 410-55513-19

Date Collected: 09/15/21 15:05

Matrix: Solid

Date Received: 09/17/21 11:51

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 21:53	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 15:36	JVK6	ELLE

Client Sample ID: SP-13-S-03-04

Lab Sample ID: 410-55513-20

Date Collected: 09/15/21 15:15

Matrix: Solid

Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-13-S-03-04

Lab Sample ID: 410-55513-20

Date Collected: 09/15/21 15:15

Matrix: Solid

Date Received: 09/17/21 11:51

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 15:47	JVK6	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-14-S-01-02
Date Collected: 09/15/21 15:25
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-14-S-01-02
Date Collected: 09/15/21 15:25
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-21
Matrix: Solid
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 22:04	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 15:58	JVK6	ELLE

Client Sample ID: SP-14-S-03-04
Date Collected: 09/15/21 15:35
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-14-S-03-04
Date Collected: 09/15/21 15:35
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-22
Matrix: Solid
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 22:15	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 16:09	JVK6	ELLE

Client Sample ID: SP-15-S-01-02
Date Collected: 09/15/21 15:50
Date Received: 09/17/21 11:51

Lab Sample ID: 410-55513-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Client Sample ID: SP-15-S-01-02

Lab Sample ID: 410-55513-23
Date Collected: 09/15/21 15:50
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 22:26	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 16:20	JVK6	ELLE

Client Sample ID: SP-15-S-03-04

Lab Sample ID: 410-55513-24
Date Collected: 09/15/21 16:00
Matrix: Solid
Date Received: 09/17/21 11:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173121	09/20/21 09:35	UWC1	ELLE

Client Sample ID: SP-15-S-03-04

Lab Sample ID: 410-55513-24
Date Collected: 09/15/21 16:00
Matrix: Solid
Date Received: 09/17/21 11:51
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)	RE		174857	09/23/21 20:54	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		174888	09/23/21 22:22	K9VR	ELLE
Total/NA	Analysis	537 IDA	RE	1	176626	09/29/21 22:37	ZG8V	ELLE
Total/NA	Prep	537 (mod)			172968	09/19/21 16:32	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			172978	09/19/21 17:32	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174137	09/22/21 16:31	JVK6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 IDA	537 (mod)	Solid	10:2 FTS
537 IDA	537 (mod)	Solid	11Cl-PF3OUdS
537 IDA	537 (mod)	Solid	4:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	6:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	8:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	9Cl-PF3ONS
537 IDA	537 (mod)	Solid	DONA
537 IDA	537 (mod)	Solid	HFPODA
537 IDA	537 (mod)	Solid	NEtFOSA
537 IDA	537 (mod)	Solid	NEtFOSAA
537 IDA	537 (mod)	Solid	NEtFOSE
537 IDA	537 (mod)	Solid	NMeFOSA
537 IDA	537 (mod)	Solid	NMeFOSAA
537 IDA	537 (mod)	Solid	NMeFOSE
537 IDA	537 (mod)	Solid	Perfluorobutanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorobutanoic acid
537 IDA	537 (mod)	Solid	Perfluorodecanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorodecanoic acid
537 IDA	537 (mod)	Solid	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	537 (mod)	Solid	Perfluorododecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorohexanoic acid
537 IDA	537 (mod)	Solid	Perfluorononanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorononanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonamide
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorooctanoic acid
537 IDA	537 (mod)	Solid	Perfluoropentanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoropentanoic acid
537 IDA	537 (mod)	Solid	Perfluorotetradecanoic acid
537 IDA	537 (mod)	Solid	Perfluorotridecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroundecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	10:2 FTS
EPA 537 (Mod)	EPA 537 (mod)	Water	11Cl-PF3OUdS
EPA 537 (Mod)	EPA 537 (mod)	Water	4:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	6:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	8:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	9Cl-PF3ONS
EPA 537 (Mod)	EPA 537 (mod)	Water	DONA
EPA 537 (Mod)	EPA 537 (mod)	Water	HFPODA
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSA

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSAA
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSE
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSA
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSAA
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSE
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorododecanesulfonic acid (PFDoS)
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorododecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexadecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctadecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonamide
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotetradecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotridecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroundecanoic acid
Moisture		Solid	Percent Moisture

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55513-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-55513-1	SP-5-S-01-02	Solid	09/15/21 11:30	09/17/21 11:51
410-55513-2	SP-5-S-03-04	Solid	09/15/21 11:35	09/17/21 11:51
410-55513-3	SP-6-S-01-02	Solid	09/15/21 11:55	09/17/21 11:51
410-55513-4	SP-6-S-03-04	Solid	09/15/21 12:05	09/17/21 11:51
410-55513-5	SP-7-S-01-02	Solid	09/15/21 12:40	09/17/21 11:51
410-55513-6	SP-7-S-03-04	Solid	09/15/21 12:50	09/17/21 11:51
410-55513-7	SP-8-S-01-02	Solid	09/15/21 13:05	09/17/21 11:51
410-55513-8	SP-8-S-03-04	Solid	09/15/21 13:15	09/17/21 11:51
410-55513-9	SP-9-S-01-02	Solid	09/15/21 13:30	09/17/21 11:51
410-55513-10	SP-9-S-03-04	Solid	09/15/21 13:40	09/17/21 11:51
410-55513-11	SP-10-S-01-02	Solid	09/15/21 13:55	09/17/21 11:51
410-55513-12	SP-10-S-03-04	Solid	09/15/21 14:05	09/17/21 11:51
410-55513-13	SP-11-S-01-02	Solid	09/15/21 14:15	09/17/21 11:51
410-55513-14	SP-11-S-03-04	Solid	09/15/21 14:25	09/17/21 11:51
410-55513-15	SP-12-S-01-02	Solid	09/15/21 14:40	09/17/21 11:51
410-55513-16	SP-12-S-03-04	Solid	09/15/21 14:50	09/17/21 11:51
410-55513-17	FB-09152021	Water	09/15/21 11:15	09/17/21 11:51
410-55513-18	EB-09152021	Water	09/15/21 14:55	09/17/21 11:51
410-55513-19	SP-13-S-01-02	Solid	09/15/21 15:05	09/17/21 11:51
410-55513-20	SP-13-S-03-04	Solid	09/15/21 15:15	09/17/21 11:51
410-55513-21	SP-14-S-01-02	Solid	09/15/21 15:25	09/17/21 11:51
410-55513-22	SP-14-S-03-04	Solid	09/15/21 15:35	09/17/21 11:51
410-55513-23	SP-15-S-01-02	Solid	09/15/21 15:50	09/17/21 11:51
410-55513-24	SP-15-S-03-04	Solid	09/15/21 16:00	09/17/21 11:51

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-55513 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY / K. CHAPPELL	Lab PM: Zanar, Elizabeth M		COC No: 10-33686-9420.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 1 of 3
Company: Weston Solutions, Inc.	PWSID:			Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket (Soils)	Project #: 41001960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Moisture - Moisture	PFC_IDA - 36 PFAS	Special Instructions/Note:
SP-5-S-01-02	9/15/21	1130	G	Solid	X	X	
SP-5-S-03-04		1135		Solid			
SP-6-S-01-02		1155		Solid			
SP-6-S-03-04		1205		Solid			
SP-7-S-01-02		1240		Solid			
SP-7-S-03-04		1250		Solid			
SP-8-S-01-02		1305		Solid			
SP-8-S-03-04		1315		Solid			
SP-9-S-01-02		1330		Solid			
SP-9-S-03-04		1340		Solid			
SP-10-S-01-02		1355		Solid			

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FED EX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Edwin Hernandez	9/10/21 1420			9/14/21 1900	WESTON
2		9/10/21 1315	WESTON			
3					9/17/21 11:51	ELE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: TL0525

Cooler Temperature(s) °C and Other Remarks: 5.3

KAM Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY / K. CHAPPELL	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-33686-9420.2
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 2 of 3
Company: Weston Solutions, Inc.	PWSID:			Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket (Soils)	Project #: 41001960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Moisture - Moisture	PFC_IDA - 36 PFAS	Special Instructions/Note:
SP-10-S-03-04	9/15/21	1405	G	Solid	X	X	
SP-11-S-01-02		1415		Solid	X		
SP-11-S-03-04		1425		Solid	X		
SP-12-S-01-02		1440		Solid	X		
SP-12-S-03-04		1450		Solid	X		
FB-09152021		1115		~~Solid~~ WATER			K. CHAPPELL
EB-09152021		1455		~~Solid~~ WATER			HAND AUGER
SP-13-S-01-02		1505		Solid	X		
SP-13-S-03-04		1515		Solid	X		
SP-14-S-01-02		1525		Solid	X		
SP-14-S-03-04		1535		Solid	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX			
Relinquished by:	Date/Time: 9/16/21 1315	Company: WESTON	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/17/21 11:01	Company

Custody Seals Intact: ~~Δ Yes~~ Δ No | Custody Seal No.: 120625

Cooler Temperature(s) °C and Other Remarks: 5.3

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY / K. CHAPPELL	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-33686-9420.3
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: MA	Page: Page 3 of 3
Company: Weston Solutions, Inc.	PWSID:			Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket (Soils)	Project #: 41001960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Moisture - Moisture	PFC_IDA - 36 PFAS	Special Instructions/Note:
			Preservation Code:		N	N	
SP-15-S-01-02	9/15/21	1550	G	Solid	X	X	
SP-15-S-03-04	"	1600	G	Solid	X	"	
TRIP BLANK	"	—	—	~~Solid~~ WATER		"	
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Matthew Kenney	9/16/21 1315	WESTON			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/17/21 11:51	Company: ELE

Custody Seals Intact: ~~Δ Yes~~ Δ No | Custody Seal No.: 120625

Cooler Temperature(s) °C and Other Remarks: 5.3

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-55513-1

Login Number: 55513
List Number: 1
Creator: Metzger, Katherine A

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-55513-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 10/06/2021

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-55663-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
9/30/2021 4:12:37 PM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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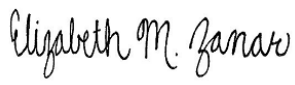

Elizabeth Zanar
Project Manager
9/30/2021 4:12:37 PM

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-55663-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 09/30/2021

Job ID: 410-55663-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-55663-1

Receipt
The samples were received on 9/18/2021 9:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C

PFAS
Method PFC_IDA: The recovery for the labeled isotope(s) in the following samples: SP-16-S-03-04 (410-55663-2), SP-17-S-01-02 (410-55663-3), SP-17-S-01-02DUP (410-55663-5), SP-18-S-01-02 (410-55663-6), SP-19-S-01-02 (410-55663-8), SP-19-S-03-04 (410-55663-9), SP-20-S-01-02 (410-55663-10) and SP-21-S-01-02 (410-55663-12) is outside the QC acceptance limits due to the matrix of the sample.

Method PFC_IDA: The sample injection standard peak areas in the following sample: SP-20-S-03-04 (410-55663-11) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: SP-16-S-01-02 — Lab Sample ID: 410-55663-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	1.7		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.92		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.45	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.27	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.24	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-16-S-03-04 — Lab Sample ID: 410-55663-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	0.76		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.23	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	2.2		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	1.3		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.46	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	88		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-17-S-01-02 — Lab Sample ID: 410-55663-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.21	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.23	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-17-S-03-04 — Lab Sample ID: 410-55663-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	6.7		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorotetradecanoic acid	0.35	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.50	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	0.25	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexadecanoic acid	0.20	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	6.8		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.81		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-17-S-01-02DUP — Lab Sample ID: 410-55663-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.26	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-18-S-01-02 — Lab Sample ID: 410-55663-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.26	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-18-S-03-04 — Lab Sample ID: 410-55663-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	2.2		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.35	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	42		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorotetradecanoic acid	0.55	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	1.4		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	39		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	2.2		2.1	0.62	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanesulfonic acid	0.31	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: SP-18-S-03-04 (Continued) — Lab Sample ID: 410-55663-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanesulfonic acid	0.48	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanesulfonic acid	0.48	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonamide	1.4		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexadecanoic acid	0.27	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	11		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	81		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-19-S-01-02 — Lab Sample ID: 410-55663-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.27	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.46	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-19-S-03-04 — Lab Sample ID: 410-55663-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	2.6		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.50	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.27	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.58	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	2.2		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-20-S-01-02 — Lab Sample ID: 410-55663-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.29	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.36	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.24	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.21	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-20-S-03-04 — Lab Sample ID: 410-55663-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	0.97		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.1		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.22	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.43	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SP-21-S-01-02 — Lab Sample ID: 410-55663-12

No Detections.

Client Sample ID: SP-21-S-03-04 — Lab Sample ID: 410-55663-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.5		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.30	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	16		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorotetradecanoic acid	1.3		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.82		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	2.6		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanesulfonic acid (PFDoS)	0.30	J	2.1	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexadecanoic acid	0.38	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-21-S-03-04 (Continued)

Lab Sample ID: 410-55663-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid	0.42	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorododecanoic acid	0.83		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.40	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-55663-14

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: SP-16-S-01-02

Date Collected: 09/15/21 16:15
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-1

Matrix: Solid
Percent Solids: 92.6

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluoroheptanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorooctanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorononanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorodecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorotridecanoic acid	**1.7**		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorohexanesulfonic acid	**0.92**		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorooctanesulfonic acid	**0.45**	**J**	0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
10:2 FTS	<0.63		2.1	0.63	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorobutanoic acid	<0.84		2.1	0.84	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluoropentanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
DONA	<0.21		3.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluorododecanoic acid	**0.27**	**J**	0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
Perfluoroundecanoic acid	**0.24**	**J**	0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
6:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1
8:2 Fluorotelomer sulfonic acid	<0.63		3.1	0.63	ng/g	☼	09/22/21 18:52	09/23/21 19:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*98*		*10 - 169*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
M2-8:2 FTS	*121*		*10 - 178*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
M2-6:2 FTS	*125*		*10 - 182*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
13C5 PFHxA	*80*		*11 - 138*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
13C4 PFHpA	*89*		*15 - 139*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
13C8 PFOA	*89*		*21 - 133*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
13C9 PFNA	*76*		*15 - 145*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
13C6 PFDA	*90*		*21 - 134*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
13C7 PFUnA	*90*		*15 - 138*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
13C2-PFDoDA	*89*		*28 - 126*	*09/22/21 18:52*	*09/23/21 19:58*	*1*
13C2 PFTeDA	*83*		*10 - 138*	*09/22/21 18:52*	*09/23/21 19:58*	*1*

Client Sample ID: SP-16-S-01-02

Date Collected: 09/15/21 16:15
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-1

Matrix: Solid
Percent Solids: 92.6

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	107		23 - 130	09/22/21 18:52	09/23/21 19:58	1
13C3 PFHxS	107		24 - 136	09/22/21 18:52	09/23/21 19:58	1
13C8 PFOS	100		31 - 130	09/22/21 18:52	09/23/21 19:58	1
d3-NMeFOSAA	49		10 - 172	09/22/21 18:52	09/23/21 19:58	1
d5-NEtFOSAA	67		10 - 176	09/22/21 18:52	09/23/21 19:58	1
13C8 FOSA	107		25 - 135	09/22/21 18:52	09/23/21 19:58	1
13C4 PFBA	72		12 - 137	09/22/21 18:52	09/23/21 19:58	1
13C5 PFPeA	71		12 - 135	09/22/21 18:52	09/23/21 19:58	1
d7-N-MeFOSE-M	95		10 - 152	09/22/21 18:52	09/23/21 19:58	1
d3-NMePFOSA	87		10 - 148	09/22/21 18:52	09/23/21 19:58	1
d9-N-EtFOSE-M	100		10 - 157	09/22/21 18:52	09/23/21 19:58	1
d5-NEtPFOSA	82		10 - 151	09/22/21 18:52	09/23/21 19:58	1
13C3 HFPO-DA	75		10 - 152	09/22/21 18:52	09/23/21 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.4**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-16-S-03-04

Date Collected: 09/15/21 16:25
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-2

Matrix: Solid
Percent Solids: 94.1

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluoroheptanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorooctanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorononanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorodecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorotridecanoic acid	**0.76**		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorohexanesulfonic acid	**0.23**	**J**	0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorooctanesulfonic acid	**2.2**		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
10:2 FTS	<0.63		2.1	0.63	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorooctanesulfonamide	**1.3**		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorobutanoic acid	<0.84		2.1	0.84	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluoropentanoic acid	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1

Client Sample ID: SP-16-S-03-04

Date Collected: 09/15/21 16:25
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-2

Matrix: Solid
Percent Solids: 94.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
DONA	<0.21		3.2	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluorododecanoic acid	**0.46**	**J**	0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
Perfluoroundecanoic acid	**88**		0.63	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
6:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1
8:2 Fluorotelomer sulfonic acid	<0.63		3.2	0.63	ng/g	☼	09/22/21 18:52	09/23/21 20:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 169*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
M2-8:2 FTS	*137*		*10 - 178*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
M2-6:2 FTS	*111*		*10 - 182*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C5 PFHxA	*81*		*11 - 138*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C4 PFHpA	*83*		*15 - 139*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C8 PFOA	*88*		*21 - 133*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C9 PFNA	*78*		*15 - 145*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C6 PFDA	*90*		*21 - 134*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C7 PFUnA	*79*		*15 - 138*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C2-PFDoDA	*88*		*28 - 126*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C2 PFTeDA	*86*		*10 - 138*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C3 PFBS	*107*		*23 - 130*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C3 PFHxS	*106*		*24 - 136*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C8 PFOS	*103*		*31 - 130*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
d3-NMeFOSAA	*6*	**5-*	*10 - 172*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
d5-NEtFOSAA	*7*	**5-*	*10 - 176*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C8 FOSA	*110*		*25 - 135*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C4 PFBA	*79*		*12 - 137*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C5 PFPeA	*75*		*12 - 135*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
d7-N-MeFOSE-M	*114*		*10 - 152*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
d3-NMePFOSA	*109*		*10 - 148*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
d9-N-EtFOSE-M	*114*		*10 - 157*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
d5-NEtPFOSA	*103*		*10 - 151*	*09/22/21 18:52*	*09/23/21 20:10*	*1*
13C3 HFPO-DA	*75*		*10 - 152*	*09/22/21 18:52*	*09/23/21 20:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.9**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-17-S-01-02

Date Collected: 09/16/21 09:55
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-3

Matrix: Solid
Percent Solids: 97.5

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluoroheptanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorooctanoic acid	**0.21**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: SP-17-S-01-02

Date Collected: 09/16/21 09:55
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-3

Matrix: Solid
Percent Solids: 97.5

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorooctanesulfonic acid	**0.23**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorobutanoic acid	<0.82		2.1	0.82	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluoropentanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
NMeFOSE	<0.51		2.1	0.51	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
NMeFOSA	<0.51		2.1	0.51	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
NEtFOSE	<0.51		2.1	0.51	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
NEtFOSA	<0.51		2.1	0.51	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
HFPODA	<0.41		2.1	0.41	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
DONA	<0.21		3.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 20:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*82*		*10 - 169*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
M2-8:2 FTS	*110*		*10 - 178*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
M2-6:2 FTS	*97*		*10 - 182*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C5 PFHxA	*59*		*11 - 138*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C4 PFHpA	*63*		*15 - 139*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C8 PFOA	*64*		*21 - 133*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C9 PFNA	*58*		*15 - 145*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C6 PFDA	*69*		*21 - 134*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C7 PFUnA	*64*		*15 - 138*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C2-PFDoDA	*65*		*28 - 126*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C2 PFTeDA	*58*		*10 - 138*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C3 PFBS	*109*		*23 - 130*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C3 PFHxS	*104*		*24 - 136*	*09/22/21 18:52*	*09/23/21 20:21*	*1*
13C8 PFOS	*100*		*31 - 130*	*09/22/21 18:52*	*09/23/21 20:21*	*1*

Client Sample ID: SP-17-S-01-02

Lab Sample ID: 410-55663-3

Date Collected: 09/16/21 09:55
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 97.5

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	4	*5-	10 - 172	09/22/21 18:52	09/23/21 20:21	1
d5-NEtFOSAA	5	*5-	10 - 176	09/22/21 18:52	09/23/21 20:21	1
13C8 FOSA	110		25 - 135	09/22/21 18:52	09/23/21 20:21	1
13C4 PFBA	57		12 - 137	09/22/21 18:52	09/23/21 20:21	1
13C5 PFPeA	55		12 - 135	09/22/21 18:52	09/23/21 20:21	1
d7-N-MeFOSE-M	105		10 - 152	09/22/21 18:52	09/23/21 20:21	1
d3-NMePFOSA	100		10 - 148	09/22/21 18:52	09/23/21 20:21	1
d9-N-EtFOSE-M	110		10 - 157	09/22/21 18:52	09/23/21 20:21	1
d5-NEtPFOSA	97		10 - 151	09/22/21 18:52	09/23/21 20:21	1
13C3 HFPO-DA	59		10 - 152	09/22/21 18:52	09/23/21 20:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.5**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-17-S-03-04

Lab Sample ID: 410-55663-4

Date Collected: 09/16/21 10:05
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 95.7

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorotridecanoic acid	**6.7**		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorotetradecanoic acid	**0.35**	**J**	0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorooctanesulfonic acid	**0.50**	**J**	0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
10:2 FTS	<0.60		2.0	0.60	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorooctanesulfonamide	**0.25**	**J**	0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorohexadecanoic acid	**0.20**	**J**	0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
HFPODA	<0.40		2.0	0.40	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1

Client Sample ID: SP-17-S-03-04

Date Collected: 09/16/21 10:05
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-4

Matrix: Solid
Percent Solids: 95.7

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	<0.20		3.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluorododecanoic acid	**6.8**		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
Perfluoroundecanoic acid	**0.81**		0.60	0.20	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g	☼	09/22/21 18:52	09/23/21 20:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*115*		*10 - 169*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
M2-8:2 FTS	*132*		*10 - 178*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
M2-6:2 FTS	*125*		*10 - 182*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C5 PFHxA	*90*		*11 - 138*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C4 PFHpA	*100*		*15 - 139*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C8 PFOA	*107*		*21 - 133*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C9 PFNA	*94*		*15 - 145*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C6 PFDA	*112*		*21 - 134*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C7 PFUnA	*101*		*15 - 138*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C2-PFDoDA	*100*		*28 - 126*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C2 PFTeDA	*90*		*10 - 138*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C3 PFBS	*113*		*23 - 130*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C3 PFHxS	*112*		*24 - 136*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C8 PFOS	*106*		*31 - 130*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
d3-NMeFOSAA	*13*		*10 - 172*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
d5-NEtFOSAA	*17*		*10 - 176*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C8 FOSA	*122*		*25 - 135*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C4 PFBA	*91*		*12 - 137*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C5 PFPeA	*87*		*12 - 135*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
d7-N-MeFOSE-M	*112*		*10 - 152*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
d3-NMePFOSA	*108*		*10 - 148*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
d9-N-EtFOSE-M	*118*		*10 - 157*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
d5-NEtPFOSA	*103*		*10 - 151*	*09/22/21 18:52*	*09/23/21 20:32*	*1*
13C3 HFPO-DA	*98*		*10 - 152*	*09/22/21 18:52*	*09/23/21 20:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.3**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-17-S-01-02DUP

Date Collected: 09/16/21 09:55
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-5

Matrix: Solid
Percent Solids: 97.4

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorooctanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1

Client Sample ID: SP-17-S-01-02DUP
Date Collected: 09/16/21 09:55
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-5
Matrix: Solid
Percent Solids: 97.4

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorooctanesulfonic acid	**0.26**	**J**	0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluoropentanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
HFPODA	<0.38		1.9	0.38	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
DONA	<0.19		2.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
Perfluoroundecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 20:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*69*		*10 - 169*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
M2-8:2 FTS	*82*		*10 - 178*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
M2-6:2 FTS	*73*		*10 - 182*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C5 PFHxA	*52*		*11 - 138*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C4 PFHpA	*57*		*15 - 139*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C8 PFOA	*56*		*21 - 133*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C9 PFNA	*56*		*15 - 145*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C6 PFDA	*59*		*21 - 134*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C7 PFUnA	*58*		*15 - 138*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C2-PFDoDA	*57*		*28 - 126*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C2 PFTeDA	*55*		*10 - 138*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C3 PFBS	*102*		*23 - 130*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C3 PFHxS	*95*		*24 - 136*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C8 PFOS	*102*		*31 - 130*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
d3-NMeFOSAA	*3*	**5-*	*10 - 172*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
d5-NEtFOSAA	*4*	**5-*	*10 - 176*	*09/22/21 18:52*	*09/23/21 20:43*	*1*
13C8 FOSA	*118*		*25 - 135*	*09/22/21 18:52*	*09/23/21 20:43*	*1*

Client Sample ID: SP-17-S-01-02DUP

Lab Sample ID: 410-55663-5

Date Collected: 09/16/21 09:55
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 97.4

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	49		12 - 137	09/22/21 18:52	09/23/21 20:43	1
13C5 PFPeA	52		12 - 135	09/22/21 18:52	09/23/21 20:43	1
d7-N-MeFOSE-M	108		10 - 152	09/22/21 18:52	09/23/21 20:43	1
d3-NMePFOSA	102		10 - 148	09/22/21 18:52	09/23/21 20:43	1
d9-N-EtFOSE-M	114		10 - 157	09/22/21 18:52	09/23/21 20:43	1
d5-NEtPFOSA	104		10 - 151	09/22/21 18:52	09/23/21 20:43	1
13C3 HFPO-DA	61		10 - 152	09/22/21 18:52	09/23/21 20:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.6**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-18-S-01-02

Lab Sample ID: 410-55663-6

Date Collected: 09/16/21 10:50
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 96.3

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluoroheptanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorooctanoic acid	**0.26**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorooctanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluoropentanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
DONA	<0.21		3.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1

Client Sample ID: SP-18-S-01-02

Lab Sample ID: 410-55663-6

Date Collected: 09/16/21 10:50
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 96.3

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 20:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*61*		*10 - 169*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
M2-8:2 FTS	*80*		*10 - 178*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
M2-6:2 FTS	*80*		*10 - 182*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C5 PFHxA	*46*		*11 - 138*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C4 PFHpA	*52*		*15 - 139*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C8 PFOA	*54*		*21 - 133*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C9 PFNA	*53*		*15 - 145*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C6 PFDA	*57*		*21 - 134*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C7 PFUnA	*58*		*15 - 138*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C2-PFDoDA	*55*		*28 - 126*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C2 PFTeDA	*54*		*10 - 138*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C3 PFBS	*97*		*23 - 130*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C3 PFHxS	*90*		*24 - 136*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C8 PFOS	*96*		*31 - 130*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
d3-NMeFOSAA	*5*	**5-*	*10 - 172*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
d5-NEtFOSAA	*7*	**5-*	*10 - 176*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C8 FOSA	*110*		*25 - 135*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C4 PFBA	*45*		*12 - 137*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C5 PFPeA	*45*		*12 - 135*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
d7-N-MeFOSE-M	*97*		*10 - 152*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
d3-NMePFOSA	*98*		*10 - 148*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
d9-N-EtFOSE-M	*103*		*10 - 157*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
d5-NEtPFOSA	*94*		*10 - 151*	*09/22/21 18:52*	*09/23/21 20:54*	*1*
13C3 HFPO-DA	*52*		*10 - 152*	*09/22/21 18:52*	*09/23/21 20:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.7**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-18-S-03-04

Lab Sample ID: 410-55663-7

Date Collected: 09/16/21 11:00
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 93.1

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluoroheptanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorooctanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorononanoic acid	**2.2**		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorodecanoic acid	**0.35**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorotridecanoic acid	**42**		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorotetradecanoic acid	**0.55**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorohexanesulfonic acid	**1.4**		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1

Client Sample ID: SP-18-S-03-04
Date Collected: 09/16/21 11:00
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-7
Matrix: Solid
Percent Solids: 93.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	**39**		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
10:2 FTS	**2.2**		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluoroheptanesulfonic acid	**0.31**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorononanesulfonic acid	**0.48**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorodecanesulfonic acid	**0.48**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorooctanesulfonamide	**1.4**		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorohexadecanoic acid	**0.27**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluoropentanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
HFPODA	<0.41		2.1	0.41	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
DONA	<0.21		3.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluorododecanoic acid	**11**		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
Perfluoroundecanoic acid	**81**		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 21:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*89*		*10 - 169*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
M2-8:2 FTS	*115*		*10 - 178*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
M2-6:2 FTS	*100*		*10 - 182*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C5 PFHxA	*68*		*11 - 138*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C4 PFHpA	*73*		*15 - 139*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C8 PFOA	*78*		*21 - 133*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C9 PFNA	*68*		*15 - 145*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C6 PFDA	*83*		*21 - 134*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C7 PFUnA	*77*		*15 - 138*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C2-PFDoDA	*80*		*28 - 126*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C2 PFTeDA	*72*		*10 - 138*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C3 PFBS	*111*		*23 - 130*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C3 PFHxS	*114*		*24 - 136*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C8 PFOS	*106*		*31 - 130*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
d3-NMeFOSAA	*17*		*10 - 172*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
d5-NEtFOSAA	*21*		*10 - 176*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C8 FOSA	*128*		*25 - 135*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C4 PFBA	*60*		*12 - 137*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
13C5 PFPeA	*61*		*12 - 135*	*09/22/21 18:52*	*09/23/21 21:05*	*1*
d7-N-MeFOSE-M	*119*		*10 - 152*	*09/22/21 18:52*	*09/23/21 21:05*	*1*

Client Sample ID: SP-18-S-03-04

Lab Sample ID: 410-55663-7

Date Collected: 09/16/21 11:00
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 93.1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	116		10 - 148	09/22/21 18:52	09/23/21 21:05	1
d9-N-EtFOSE-M	128		10 - 157	09/22/21 18:52	09/23/21 21:05	1
d5-NEtPFOSA	109		10 - 151	09/22/21 18:52	09/23/21 21:05	1
13C3 HFPO-DA	68		10 - 152	09/22/21 18:52	09/23/21 21:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.9		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-19-S-01-02

Lab Sample ID: 410-55663-8

Date Collected: 09/16/21 11:15
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 94.9

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorooctanoic acid	0.27	J	0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorobutanesulfonic acid	<0.39		1.9	0.39	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorooctanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluoropentanoic acid	0.46	J	0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
HFPODA	<0.39		1.9	0.39	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
DONA	<0.19		2.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
Perfluoroundecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1

Client Sample ID: SP-19-S-01-02

Lab Sample ID: 410-55663-8
Date Collected: 09/16/21 11:15
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 94.9

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 21:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*61*		*10 - 169*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
M2-8:2 FTS	*77*		*10 - 178*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
M2-6:2 FTS	*73*		*10 - 182*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C5 PFHxA	*47*		*11 - 138*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C4 PFHpA	*53*		*15 - 139*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C8 PFOA	*51*		*21 - 133*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C9 PFNA	*49*		*15 - 145*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C6 PFDA	*59*		*21 - 134*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C7 PFUnA	*56*		*15 - 138*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C2-PFDoDA	*53*		*28 - 126*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C2 PFTeDA	*49*		*10 - 138*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C3 PFBS	*94*		*23 - 130*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C3 PFHxS	*92*		*24 - 136*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C8 PFOS	*89*		*31 - 130*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
d3-NMeFOSAA	*3*	**5-*	*10 - 172*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
d5-NEtFOSAA	*4*	**5-*	*10 - 176*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C8 FOSA	*111*		*25 - 135*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C4 PFBA	*42*		*12 - 137*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C5 PFPeA	*43*		*12 - 135*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
d7-N-MeFOSE-M	*107*		*10 - 152*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
d3-NMePFOSA	*103*		*10 - 148*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
d9-N-EtFOSE-M	*113*		*10 - 157*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
d5-NEtPFOSA	*103*		*10 - 151*	*09/22/21 18:52*	*09/23/21 21:16*	*1*
13C3 HFPO-DA	*53*		*10 - 152*	*09/22/21 18:52*	*09/23/21 21:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.1**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-19-S-03-04

Lab Sample ID: 410-55663-9
Date Collected: 09/16/21 11:25
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 89.9

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluoroheptanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorooctanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorotridecanoic acid	**2.6**		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorooctanesulfonic acid	**0.50**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1

Client Sample ID: SP-19-S-03-04
Date Collected: 09/16/21 11:25
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-9
Matrix: Solid
Percent Solids: 89.9

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluoropentanoic acid	**0.27**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
DONA	<0.21		3.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluorododecanoic acid	**0.58**	**J**	0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
Perfluoroundecanoic acid	**2.2**		0.62	0.21	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	09/22/21 18:52	09/23/21 21:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 169*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
M2-8:2 FTS	*97*		*10 - 178*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
M2-6:2 FTS	*97*		*10 - 182*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C5 PFHxA	*74*		*11 - 138*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C4 PFHpA	*79*		*15 - 139*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C8 PFOA	*82*		*21 - 133*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C9 PFNA	*75*		*15 - 145*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C6 PFDA	*82*		*21 - 134*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C7 PFUnA	*77*		*15 - 138*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C2-PFDoDA	*74*		*28 - 126*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C2 PFTeDA	*69*		*10 - 138*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C3 PFBS	*101*		*23 - 130*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C3 PFHxS	*103*		*24 - 136*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C8 PFOS	*97*		*31 - 130*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
d3-NMeFOSAA	*8*	**5-*	*10 - 172*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
d5-NEtFOSAA	*10*		*10 - 176*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C8 FOSA	*103*		*25 - 135*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C4 PFBA	*67*		*12 - 137*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
13C5 PFPeA	*68*		*12 - 135*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
d7-N-MeFOSE-M	*99*		*10 - 152*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
d3-NMePFOSA	*98*		*10 - 148*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
d9-N-EtFOSE-M	*103*		*10 - 157*	*09/22/21 18:52*	*09/23/21 21:27*	*1*
d5-NEtPFOSA	*92*		*10 - 151*	*09/22/21 18:52*	*09/23/21 21:27*	*1*

Client Sample ID: SP-19-S-03-04

Lab Sample ID: 410-55663-9
Date Collected: 09/16/21 11:25
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 89.9

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*70*		*10 - 152*	*09/22/21 18:52*	*09/23/21 21:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.1**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-20-S-01-02

Lab Sample ID: 410-55663-10
Date Collected: 09/16/21 11:40
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 95.2

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluoroheptanoic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorooctanoic acid	**0.29**	**J**	0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorononanoic acid	**0.36**	**J**	0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorodecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorotridecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorotetradecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorohexanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorooctanesulfonic acid	**0.24**	**J**	0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
10:2 FTS	<0.59		2.0	0.59	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluoropentanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluoroheptanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorononanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorodecanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorooctanesulfonamide	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorohexadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorooctadecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorobutanoic acid	<0.79		2.0	0.79	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluoropentanoic acid	**0.21**	**J**	0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
HFPODA	<0.40		2.0	0.40	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
DONA	<0.20		3.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
11Cl-PF3OUdS	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluorododecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
4:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
Perfluoroundecanoic acid	<0.20		0.59	0.20	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
6:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1
8:2 Fluorotelomer sulfonic acid	<0.59		3.0	0.59	ng/g	☼	09/22/21 18:52	09/23/21 21:38	1

Client Sample ID: SP-20-S-01-02

Lab Sample ID: 410-55663-10

Date Collected: 09/16/21 11:40

Matrix: Solid

Date Received: 09/18/21 09:33

Percent Solids: 95.2

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 169*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
M2-8:2 FTS	*96*		*10 - 178*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
M2-6:2 FTS	*86*		*10 - 182*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C5 PFHxA	*61*		*11 - 138*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C4 PFHpA	*62*		*15 - 139*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C8 PFOA	*68*		*21 - 133*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C9 PFNA	*63*		*15 - 145*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C6 PFDA	*72*		*21 - 134*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C7 PFUnA	*69*		*15 - 138*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C2-PFDoDA	*68*		*28 - 126*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C2 PFTeDA	*60*		*10 - 138*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C3 PFBS	*106*		*23 - 130*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C3 PFHxS	*101*		*24 - 136*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C8 PFOS	*99*		*31 - 130*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
d3-NMeFOSAA	*5*	**5-*	*10 - 172*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
d5-NEtFOSAA	*7*	**5-*	*10 - 176*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C8 FOSA	*107*		*25 - 135*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C4 PFBA	*55*		*12 - 137*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C5 PFPeA	*57*		*12 - 135*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
d7-N-MeFOSE-M	*103*		*10 - 152*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
d3-NMePFOSA	*104*		*10 - 148*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
d9-N-EtFOSE-M	*107*		*10 - 157*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
d5-NEtPFOSA	*101*		*10 - 151*	*09/22/21 18:52*	*09/23/21 21:38*	*1*
13C3 HFPO-DA	*59*		*10 - 152*	*09/22/21 18:52*	*09/23/21 21:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.8**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-20-S-03-04

Lab Sample ID: 410-55663-11

Date Collected: 09/16/21 11:50

Matrix: Solid

Date Received: 09/18/21 09:33

Percent Solids: 96.5

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorooctanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorotridecanoic acid	**0.97**		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorobutanesulfonic acid	<0.39		1.9	0.39	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorooctanesulfonic acid	**1.1**		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1

Client Sample ID: SP-20-S-03-04
Date Collected: 09/16/21 11:50
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-11
Matrix: Solid
Percent Solids: 96.5

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorobutanoic acid	<0.78		1.9	0.78	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluoropentanoic acid	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
HFPODA	<0.39		1.9	0.39	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
DONA	<0.19		2.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluorododecanoic acid	**0.22**	**J**	0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
Perfluoroundecanoic acid	**0.43**	**J**	0.58	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	09/22/21 18:52	09/23/21 22:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*115*		*10 - 169*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
M2-8:2 FTS	*126*		*10 - 178*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
M2-6:2 FTS	*126*		*10 - 182*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C5 PFHxA	*92*		*11 - 138*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C4 PFHpA	*95*		*15 - 139*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C8 PFOA	*98*		*21 - 133*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C9 PFNA	*87*		*15 - 145*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C6 PFDA	*106*		*21 - 134*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C7 PFUnA	*94*		*15 - 138*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C2-PFDoDA	*92*		*28 - 126*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C2 PFTeDA	*85*		*10 - 138*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C3 PFBS	*116*		*23 - 130*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C3 PFHxS	*112*		*24 - 136*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C8 PFOS	*109*		*31 - 130*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
d3-NMeFOSAA	*25*		*10 - 172*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
d5-NEtFOSAA	*27*		*10 - 176*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C8 FOSA	*118*		*25 - 135*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C4 PFBA	*95*		*12 - 137*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C5 PFPeA	*93*		*12 - 135*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
d7-N-MeFOSE-M	*107*		*10 - 152*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
d3-NMePFOSA	*106*		*10 - 148*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
d9-N-EtFOSE-M	*116*		*10 - 157*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
d5-NEtPFOSA	*104*		*10 - 151*	*09/22/21 18:52*	*09/23/21 22:00*	*1*
13C3 HFPO-DA	*87*		*10 - 152*	*09/22/21 18:52*	*09/23/21 22:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.5**		1.0	1.0	%			09/22/21 07:13	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: SP-21-S-01-02

Date Collected: 09/16/21 12:05
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-12

Matrix: Solid
Percent Solids: 96.9

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluoroheptanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorooctanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorononanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorodecanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorotridecanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorotetradecanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorohexanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorooctanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
10:2 FTS	<0.56		1.9	0.56	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluoropentanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluoroheptanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorononanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorodecanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorooctanesulfonamide	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorohexadecanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorooctadecanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorobutanoic acid	<0.75		1.9	0.75	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluoropentanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
NMeFOSE	<0.47		1.9	0.47	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
NMeFOSA	<0.47		1.9	0.47	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
NEtFOSE	<0.47		1.9	0.47	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
NEtFOSA	<0.47		1.9	0.47	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
HFPODA	<0.38		1.9	0.38	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
DONA	<0.19		2.8	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
11Cl-PF3OUdS	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluorododecanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
4:2 Fluorotelomer sulfonic acid	<0.56		1.9	0.56	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
Perfluoroundecanoic acid	<0.19		0.56	0.19	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
6:2 Fluorotelomer sulfonic acid	<0.56		1.9	0.56	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1
8:2 Fluorotelomer sulfonic acid	<0.56		2.8	0.56	ng/g	☼	09/22/21 18:52	09/23/21 22:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*76*		*10 - 169*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
M2-8:2 FTS	*84*		*10 - 178*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
M2-6:2 FTS	*86*		*10 - 182*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
13C5 PFHxA	*58*		*11 - 138*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
13C4 PFHpA	*66*		*15 - 139*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
13C8 PFOA	*64*		*21 - 133*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
13C9 PFNA	*61*		*15 - 145*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
13C6 PFDA	*69*		*21 - 134*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
13C7 PFUnA	*65*		*15 - 138*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
13C2-PFDoDA	*62*		*28 - 126*	*09/22/21 18:52*	*09/23/21 22:12*	*1*
13C2 PFTeDA	*57*		*10 - 138*	*09/22/21 18:52*	*09/23/21 22:12*	*1*

Client Sample ID: SP-21-S-01-02

Lab Sample ID: 410-55663-12

Date Collected: 09/16/21 12:05
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 96.9

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	103		23 - 130	09/22/21 18:52	09/23/21 22:12	1
13C3 PFHxS	101		24 - 136	09/22/21 18:52	09/23/21 22:12	1
13C8 PFOS	100		31 - 130	09/22/21 18:52	09/23/21 22:12	1
d3-NMeFOSAA	3	*5-	10 - 172	09/22/21 18:52	09/23/21 22:12	1
d5-NEtFOSAA	4	*5-	10 - 176	09/22/21 18:52	09/23/21 22:12	1
13C8 FOSA	116		25 - 135	09/22/21 18:52	09/23/21 22:12	1
13C4 PFBA	54		12 - 137	09/22/21 18:52	09/23/21 22:12	1
13C5 PFPeA	56		12 - 135	09/22/21 18:52	09/23/21 22:12	1
d7-N-MeFOSE-M	102		10 - 152	09/22/21 18:52	09/23/21 22:12	1
d3-NMePFOSA	99		10 - 148	09/22/21 18:52	09/23/21 22:12	1
d9-N-EtFOSE-M	94		10 - 157	09/22/21 18:52	09/23/21 22:12	1
d5-NEtPFOSA	103		10 - 151	09/22/21 18:52	09/23/21 22:12	1
13C3 HFPO-DA	69		10 - 152	09/22/21 18:52	09/23/21 22:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.1**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: SP-21-S-03-04

Lab Sample ID: 410-55663-13

Date Collected: 09/16/21 12:15
Matrix: Solid
Date Received: 09/18/21 09:33
Percent Solids: 94.3

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.5**		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluoroheptanoic acid	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorooctanoic acid	**0.30**	**J**	0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorononanoic acid	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorodecanoic acid	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorotridecanoic acid	**16**		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorotetradecanoic acid	**1.3**		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorohexanesulfonic acid	**0.82**		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorooctanesulfonic acid	**2.6**		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
10:2 FTS	<0.64		2.1	0.64	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorododecanesulfonic acid (PFDoS)	**0.30**	**J**	2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorohexadecanoic acid	**0.38**	**J**	0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorobutanoic acid	<0.85		2.1	0.85	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluoropentanoic acid	**0.42**	**J**	0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1

Client Sample ID: SP-21-S-03-04

Date Collected: 09/16/21 12:15
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-13

Matrix: Solid
Percent Solids: 94.3

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
HFPODA	<0.42		2.1	0.42	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
DONA	<0.21		3.2	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluorododecanoic acid	**0.83**		0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
Perfluoroundecanoic acid	**0.40**	**J**	0.64	0.21	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
6:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1
8:2 Fluorotelomer sulfonic acid	<0.64		3.2	0.64	ng/g	☼	09/22/21 18:52	09/23/21 22:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*112*		*10 - 169*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
M2-8:2 FTS	*115*		*10 - 178*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
M2-6:2 FTS	*125*		*10 - 182*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C5 PFHxA	*78*		*11 - 138*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C4 PFHpA	*79*		*15 - 139*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C8 PFOA	*85*		*21 - 133*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C9 PFNA	*78*		*15 - 145*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C6 PFDA	*94*		*21 - 134*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C7 PFUnA	*80*		*15 - 138*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C2-PFDoDA	*83*		*28 - 126*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C2 PFTeDA	*74*		*10 - 138*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C3 PFBS	*104*		*23 - 130*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C3 PFHxS	*106*		*24 - 136*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C8 PFOS	*97*		*31 - 130*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
d3-NMeFOSAA	*54*		*10 - 172*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
d5-NEtFOSAA	*67*		*10 - 176*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C8 FOSA	*96*		*25 - 135*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C4 PFBA	*69*		*12 - 137*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C5 PFPeA	*69*		*12 - 135*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
d7-N-MeFOSE-M	*90*		*10 - 152*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
d3-NMePFOSA	*88*		*10 - 148*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
d9-N-EtFOSE-M	*93*		*10 - 157*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
d5-NEtPFOSA	*84*		*10 - 151*	*09/22/21 18:52*	*09/23/21 22:23*	*1*
13C3 HFPO-DA	*63*		*10 - 152*	*09/22/21 18:52*	*09/23/21 22:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.7**		1.0	1.0	%			09/22/21 07:13	1

Client Sample ID: Trip Blank

Date Collected: 09/15/21 00:00
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-14

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluoroheptanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorooctanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: Trip Blank

Date Collected: 09/15/21 00:00
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-14

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorodecanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorotridecanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorotetradecanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorobutanesulfonic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorohexanesulfonic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorooctanesulfonic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
NEtFOSAA	<0.46		2.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
NMeFOSAA	<0.55		1.8	0.55	ng/L		09/22/21 17:20	09/26/21 20:26	1
10:2 FTS	<0.92		4.6	0.92	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluoropentanesulfonic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluoroheptanesulfonic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorononanesulfonic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorodecanesulfonic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.46		2.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorooctanesulfonamide	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorohexadecanoic acid	<0.92		2.8	0.92	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorooctadecanoic acid	<0.92		2.8	0.92	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorobutanoic acid	<1.8		4.6	1.8	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluoropentanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
NMeFOSE	<0.92		2.8	0.92	ng/L		09/22/21 17:20	09/26/21 20:26	1
NMeFOSA	<0.92		2.8	0.92	ng/L		09/22/21 17:20	09/26/21 20:26	1
NEtFOSE	<0.92		2.8	0.92	ng/L		09/22/21 17:20	09/26/21 20:26	1
NEtFOSA	<0.92		4.6	0.92	ng/L		09/22/21 17:20	09/26/21 20:26	1
HFPODA	<0.46		2.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
DONA	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
9Cl-PF3ONS	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
11Cl-PF3OUdS	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluorododecanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
4:2 Fluorotelomer sulfonic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
Perfluoroundecanoic acid	<0.46		1.8	0.46	ng/L		09/22/21 17:20	09/26/21 20:26	1
6:2 Fluorotelomer sulfonic acid	<1.8		4.6	1.8	ng/L		09/22/21 17:20	09/26/21 20:26	1
8:2 Fluorotelomer sulfonic acid	<0.92		2.8	0.92	ng/L		09/22/21 17:20	09/26/21 20:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*118*		*20 - 187*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
M2-8:2 FTS	*119*		*34 - 182*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
M2-6:2 FTS	*122*		*29 - 189*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C5 PFHxA	*105*		*31 - 142*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C4 PFHpA	*111*		*30 - 144*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C8 PFOA	*117*		*49 - 127*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C9 PFNA	*113*		*47 - 136*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C6 PFDA	*113*		*47 - 128*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C7 PFUnA	*102*		*40 - 135*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C2-PFDoDA	*100*		*28 - 136*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C2 PFTeDA	*96*		*10 - 144*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C3 PFBS	*122*		*19 - 178*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C3 PFHxS	*111*		*32 - 145*	*09/22/21 17:20*	*09/26/21 20:26*	*1*
13C8 PFOS	*118*		*49 - 126*	*09/22/21 17:20*	*09/26/21 20:26*	*1*

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: Trip Blank
Date Collected: 09/15/21 00:00
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-14
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	115		32 - 151	09/22/21 17:20	09/26/21 20:26	1
d5-NEtFOSAA	109		37 - 164	09/22/21 17:20	09/26/21 20:26	1
13C8 FOSA	90		10 - 143	09/22/21 17:20	09/26/21 20:26	1
13C4 PFBA	108		41 - 132	09/22/21 17:20	09/26/21 20:26	1
13C5 PFPeA	110		33 - 155	09/22/21 17:20	09/26/21 20:26	1
d7-N-MeFOSE-M	96		10 - 143	09/22/21 17:20	09/26/21 20:26	1
d3-NMePFOSA	72		10 - 107	09/22/21 17:20	09/26/21 20:26	1
d9-N-EtFOSE-M	100		10 - 142	09/22/21 17:20	09/26/21 20:26	1
d5-NEtPFOSA	73		10 - 108	09/22/21 17:20	09/26/21 20:26	1
13C3 HFPO-DA	121		20 - 153	09/22/21 17:20	09/26/21 20:26	1

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-169)	M282FTS (10-178)	M262FTS (10-182)	13C5PHA (11-138)	C4PFHA (15-139)	C8PFOA (21-133)	C9PFNA (15-145)	C6PFDA (21-134)
410-55663-1	SP-16-S-01-02	98	121	125	80	89	89	76	90
410-55663-2	SP-16-S-03-04	92	137	111	81	83	88	78	90
410-55663-3	SP-17-S-01-02	82	110	97	59	63	64	58	69
410-55663-4	SP-17-S-03-04	115	132	125	90	100	107	94	112
410-55663-5	SP-17-S-01-02DUP	69	82	73	52	57	56	56	59
410-55663-6	SP-18-S-01-02	61	80	80	46	52	54	53	57
410-55663-7	SP-18-S-03-04	89	115	100	68	73	78	68	83
410-55663-8	SP-19-S-01-02	61	77	73	47	53	51	49	59
410-55663-9	SP-19-S-03-04	93	97	97	74	79	82	75	82
410-55663-10	SP-20-S-01-02	83	96	86	61	62	68	63	72
410-55663-11	SP-20-S-03-04	115	126	126	92	95	98	87	106
410-55663-12	SP-21-S-01-02	76	84	86	58	66	64	61	69
410-55663-13	SP-21-S-03-04	112	115	125	78	79	85	78	94
LCS 410-174354/2-B	Lab Control Sample	120	125	122	101	104	106	93	113
LCSD 410-174354/3-B	Lab Control Sample Dup	116	127	121	105	106	109	99	106
MB 410-174354/1-B	Method Blank	111	119	115	93	98	105	94	102

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (15-138)	PFDoDA (28-126)	PFTDA (10-138)	C3PFBS (23-130)	C3PFHS (24-136)	C8PFOS (31-130)	d3NMFOS (10-172)	d5NEFOS (10-176)
410-55663-1	SP-16-S-01-02	90	89	83	107	107	100	49	67
410-55663-2	SP-16-S-03-04	79	88	86	107	106	103	6 *5-	7 *5-
410-55663-3	SP-17-S-01-02	64	65	58	109	104	100	4 *5-	5 *5-
410-55663-4	SP-17-S-03-04	101	100	90	113	112	106	13	17
410-55663-5	SP-17-S-01-02DUP	58	57	55	102	95	102	3 *5-	4 *5-
410-55663-6	SP-18-S-01-02	58	55	54	97	90	96	5 *5-	7 *5-
410-55663-7	SP-18-S-03-04	77	80	72	111	114	106	17	21
410-55663-8	SP-19-S-01-02	56	53	49	94	92	89	3 *5-	4 *5-
410-55663-9	SP-19-S-03-04	77	74	69	101	103	97	8 *5-	10
410-55663-10	SP-20-S-01-02	69	68	60	106	101	99	5 *5-	7 *5-
410-55663-11	SP-20-S-03-04	94	92	85	116	112	109	25	27
410-55663-12	SP-21-S-01-02	65	62	57	103	101	100	3 *5-	4 *5-
410-55663-13	SP-21-S-03-04	80	83	74	104	106	97	54	67
LCS 410-174354/2-B	Lab Control Sample	101	109	96	115	115	105	118	110
LCSD 410-174354/3-B	Lab Control Sample Dup	105	96	95	113	116	111	114	100
MB 410-174354/1-B	Method Blank	92	94	78	108	102	106	93	93

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-135)	PFBA (12-137)	PFPeA (12-135)	NMFM (10-152)	d3NMFSA (10-148)	NEFM (10-157)	d5NPFSA (10-151)	HFPODA (10-152)
410-55663-1	SP-16-S-01-02	107	72	71	95	87	100	82	75
410-55663-2	SP-16-S-03-04	110	79	75	114	109	114	103	75
410-55663-3	SP-17-S-01-02	110	57	55	105	100	110	97	59
410-55663-4	SP-17-S-03-04	122	91	87	112	108	118	103	98
410-55663-5	SP-17-S-01-02DUP	118	49	52	108	102	114	104	61
410-55663-6	SP-18-S-01-02	110	45	45	97	98	103	94	52
410-55663-7	SP-18-S-03-04	128	60	61	119	116	128	109	68
410-55663-8	SP-19-S-01-02	111	42	43	107	103	113	103	53
410-55663-9	SP-19-S-03-04	103	67	68	99	98	103	92	70
410-55663-10	SP-20-S-01-02	107	55	57	103	104	107	101	59
410-55663-11	SP-20-S-03-04	118	95	93	107	106	116	104	87

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-135)	PFBA (12-137)	PFPeA (12-135)	NMFM (10-152)	d3NMFSA (10-148)	NEFM (10-157)	d5NPFSA (10-151)	HFPODA (10-152)
410-55663-12	SP-21-S-01-02	116	54	56	102	99	94	103	69
410-55663-13	SP-21-S-03-04	96	69	69	90	88	93	84	63
LCS 410-174354/2-B	Lab Control Sample	115	102	96	112	107	117	104	96
LCSD 410-174354/3-B	Lab Control Sample Dup	110	98	96	108	103	103	101	76
MB 410-174354/1-B	Method Blank	110	98	92	99	98	104	95	79

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-187)	M282FTS (34-182)	M262FTS (29-189)	13C5PHA (31-142)	C4PFHA (30-144)	C8PFOA (49-127)	C9PFNA (47-136)	C6PFDA (47-128)
410-55663-14	Trip Blank	118	119	122	105	111	117	113	113
LCS 410-174313/2-A	Lab Control Sample	105	108	111	100	101	109	108	109
LCSD 410-174313/3-A	Lab Control Sample Dup	93	100	101	92	93	100	99	100
MB 410-174313/1-A	Method Blank	106	113	106	107	101	105	116	109

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (40-135)	PFDoDA (28-136)	PFTDA (10-144)	C3PFBS (19-178)	C3PFHS (32-145)	C8PFOS (49-126)	d3NMFOS (32-151)	d5NEFOS (37-164)
410-55663-14	Trip Blank	102	100	96	122	111	118	115	109
LCS 410-174313/2-A	Lab Control Sample	93	96	90	111	98	109	103	105
LCSD 410-174313/3-A	Lab Control Sample Dup	85	87	85	109	93	104	98	95
MB 410-174313/1-A	Method Blank	98	99	97	112	100	114	114	107

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-143)	PFBA (41-132)	PFPeA (33-155)	NMFM (10-143)	d3NMFSA (10-107)	NEFM (10-142)	d5NPFSA (10-108)	HFPODA (20-153)
410-55663-14	Trip Blank	90	108	110	96	72	100	73	121
LCS 410-174313/2-A	Lab Control Sample	85	101	107	90	61	97	60	107
LCSD 410-174313/3-A	Lab Control Sample Dup	82	97	98	82	67	87	71	103
MB 410-174313/1-A	Method Blank	92	106	107	96	78	103	80	109

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-174354/1-B
Matrix: Solid
Analysis Batch: 174703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
10:2 FTS	<0.60		2.0	0.60	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
NMeFOSE	<0.50		2.0	0.50	ng/g		09/22/21 18:52	09/23/21 19:25	1
NMeFOSA	<0.50		2.0	0.50	ng/g		09/22/21 18:52	09/23/21 19:25	1
NEtFOSE	<0.50		2.0	0.50	ng/g		09/22/21 18:52	09/23/21 19:25	1
NEtFOSA	<0.50		2.0	0.50	ng/g		09/22/21 18:52	09/23/21 19:25	1
HFPODA	<0.40		2.0	0.40	ng/g		09/22/21 18:52	09/23/21 19:25	1
DONA	<0.20		3.0	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		09/22/21 18:52	09/23/21 19:25	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		09/22/21 18:52	09/23/21 19:25	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		09/22/21 18:52	09/23/21 19:25	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		09/22/21 18:52	09/23/21 19:25	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*111*		*10 - 169*	*09/22/21 18:52*	*09/23/21 19:25*	*1*
M2-8:2 FTS	*119*		*10 - 178*	*09/22/21 18:52*	*09/23/21 19:25*	*1*
M2-6:2 FTS	*115*		*10 - 182*	*09/22/21 18:52*	*09/23/21 19:25*	*1*
13C5 PFHxA	*93*		*11 - 138*	*09/22/21 18:52*	*09/23/21 19:25*	*1*
13C4 PFHpA	*98*		*15 - 139*	*09/22/21 18:52*	*09/23/21 19:25*	*1*
13C8 PFOA	*105*		*21 - 133*	*09/22/21 18:52*	*09/23/21 19:25*	*1*
13C9 PFNA	*94*		*15 - 145*	*09/22/21 18:52*	*09/23/21 19:25*	*1*
13C6 PFDA	*102*		*21 - 134*	*09/22/21 18:52*	*09/23/21 19:25*	*1*
13C7 PFUnA	*92*		*15 - 138*	*09/22/21 18:52*	*09/23/21 19:25*	*1*
13C2-PFDoDA	*94*		*28 - 126*	*09/22/21 18:52*	*09/23/21 19:25*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-174354/1-B
Matrix: Solid
Analysis Batch: 174703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174354

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	78		10 - 138	09/22/21 18:52	09/23/21 19:25	1
13C3 PFBS	108		23 - 130	09/22/21 18:52	09/23/21 19:25	1
13C3 PFHxS	102		24 - 136	09/22/21 18:52	09/23/21 19:25	1
13C8 PFOS	106		31 - 130	09/22/21 18:52	09/23/21 19:25	1
d3-NMeFOSAA	93		10 - 172	09/22/21 18:52	09/23/21 19:25	1
d5-NEtFOSAA	93		10 - 176	09/22/21 18:52	09/23/21 19:25	1
13C8 FOSA	110		25 - 135	09/22/21 18:52	09/23/21 19:25	1
13C4 PFBA	98		12 - 137	09/22/21 18:52	09/23/21 19:25	1
13C5 PFPeA	92		12 - 135	09/22/21 18:52	09/23/21 19:25	1
d7-N-MeFOSE-M	99		10 - 152	09/22/21 18:52	09/23/21 19:25	1
d3-NMePFOSA	98		10 - 148	09/22/21 18:52	09/23/21 19:25	1
d9-N-EtFOSE-M	104		10 - 157	09/22/21 18:52	09/23/21 19:25	1
d5-NEtPFOSA	95		10 - 151	09/22/21 18:52	09/23/21 19:25	1
13C3 HFPO-DA	79		10 - 152	09/22/21 18:52	09/23/21 19:25	1

Lab Sample ID: LCS 410-174354/2-B
Matrix: Solid
Analysis Batch: 174703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.0	26.3		ng/g		105	61 - 147
Perfluoroheptanoic acid	25.0	26.0		ng/g		104	61 - 151
Perfluorooctanoic acid	25.0	24.6		ng/g		98	62 - 144
Perfluorononanoic acid	25.0	26.5		ng/g		106	62 - 148
Perfluorodecanoic acid	25.0	23.9		ng/g		95	62 - 142
Perfluorotridecanoic acid	25.0	26.5		ng/g		106	57 - 152
Perfluorotetradecanoic acid	25.0	25.8		ng/g		103	60 - 147
Perfluorobutanesulfonic acid	22.1	20.4		ng/g		92	62 - 137
Perfluorohexanesulfonic acid	22.8	22.4		ng/g		98	57 - 135
Perfluorooctanesulfonic acid	23.1	22.5		ng/g		97	48 - 134
NEtFOSAA	25.0	24.5		ng/g		98	50 - 140
NMeFOSAA	25.0	21.5		ng/g		86	53 - 149
10:2 FTS	24.1	22.8		ng/g		95	42 - 142
Perfluoropentanesulfonic acid	23.5	22.6		ng/g		96	65 - 145
Perfluoroheptanesulfonic acid	23.8	24.5		ng/g		103	67 - 138
Perfluorononanesulfonic acid	24.0	21.6		ng/g		90	63 - 143
Perfluorodecanesulfonic acid	24.1	23.8		ng/g		99	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	23.6		ng/g		97	52 - 145
Perfluorooctanesulfonamide	25.0	23.0		ng/g		92	52 - 132
Perfluorohexadecanoic acid	25.0	24.1		ng/g		96	44 - 161
Perfluorooctadecanoic acid	25.0	22.0		ng/g		88	16 - 175
Perfluorobutanoic acid	25.0	20.0		ng/g		80	50 - 185
Perfluoropentanoic acid	25.0	25.0		ng/g		100	69 - 144
NMeFOSE	25.0	23.1		ng/g		92	47 - 138
NMeFOSA	25.0	22.5		ng/g		90	43 - 134
NEtFOSE	25.0	20.9		ng/g		84	46 - 134
NEtFOSA	25.0	21.9		ng/g		88	48 - 130
HFPODA	25.0	27.0		ng/g		108	29 - 162

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-174354/2-B
Matrix: Solid
Analysis Batch: 174703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DONA	23.6	24.9		ng/g		105	48 - 155
9Cl-PF3ONS	23.3	20.5		ng/g		88	48 - 146
11Cl-PF3OUdS	23.3	21.4		ng/g		92	45 - 145
Perfluorododecanoic acid	25.0	24.7		ng/g		99	60 - 147
4:2 Fluorotelomer sulfonic acid	23.4	20.7		ng/g		88	55 - 132
Perfluoroundecanoic acid	25.0	27.6		ng/g		110	62 - 144
6:2 Fluorotelomer sulfonic acid	23.7	21.1		ng/g		89	53 - 137
8:2 Fluorotelomer sulfonic acid	24.0	22.4		ng/g		94	50 - 147

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*120*		*10 - 169*
M2-8:2 FTS	*125*		*10 - 178*
M2-6:2 FTS	*122*		*10 - 182*
13C5 PFHxA	*101*		*11 - 138*
13C4 PFHpA	*104*		*15 - 139*
13C8 PFOA	*106*		*21 - 133*
13C9 PFNA	*93*		*15 - 145*
13C6 PFDA	*113*		*21 - 134*
13C7 PFUnA	*101*		*15 - 138*
13C2-PFDoDA	*109*		*28 - 126*
13C2 PFTeDA	*96*		*10 - 138*
13C3 PFBS	*115*		*23 - 130*
13C3 PFHxS	*115*		*24 - 136*
13C8 PFOS	*105*		*31 - 130*
d3-NMeFOSAA	*118*		*10 - 172*
d5-NEtFOSAA	*110*		*10 - 176*
13C8 FOSA	*115*		*25 - 135*
13C4 PFBA	*102*		*12 - 137*
13C5 PFPeA	*96*		*12 - 135*
d7-N-MeFOSE-M	*112*		*10 - 152*
d3-NMePFOSA	*107*		*10 - 148*
d9-N-EtFOSE-M	*117*		*10 - 157*
d5-NEtPFOSA	*104*		*10 - 151*
13C3 HFPO-DA	*96*		*10 - 152*

Lab Sample ID: LCSD 410-174354/3-B
Matrix: Solid
Analysis Batch: 174703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174354

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.0	25.0		ng/g		100	61 - 147	5	30
Perfluoroheptanoic acid	25.0	25.8		ng/g		103	61 - 151	1	30
Perfluorooctanoic acid	25.0	23.8		ng/g		95	62 - 144	3	30
Perfluorononanoic acid	25.0	25.6		ng/g		102	62 - 148	4	30
Perfluorodecanoic acid	25.0	25.3		ng/g		101	62 - 142	6	30
Perfluorotridecanoic acid	25.0	27.7		ng/g		111	57 - 152	5	30
Perfluorotetradecanoic acid	25.0	25.3		ng/g		101	60 - 147	2	30
Perfluorobutanesulfonic acid	22.1	21.0		ng/g		95	62 - 137	3	30
Perfluorohexanesulfonic acid	22.8	22.4		ng/g		98	57 - 135	0	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-174354/3-B
Matrix: Solid
Analysis Batch: 174703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174354

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid			23.1	21.9		ng/g		95	48 - 134	2	30
NEtFOSAA			25.0	26.6		ng/g		106	50 - 140	8	30
NMeFOSAA			25.0	21.6		ng/g		86	53 - 149	0	30
10:2 FTS			24.1	21.2		ng/g		88	42 - 142	7	30
Perfluoropentanesulfonic acid			23.5	21.8		ng/g		93	65 - 145	3	30
Perfluoroheptanesulfonic acid			23.8	24.8		ng/g		104	67 - 138	1	30
Perfluorononanesulfonic acid			24.0	22.1		ng/g		92	63 - 143	2	30
Perfluorodecanesulfonic acid			24.1	24.1		ng/g		100	60 - 142	1	30
Perfluorododecanesulfonic acid (PFDoS)			24.2	21.6		ng/g		89	52 - 145	9	30
Perfluorooctanesulfonamide			25.0	23.1		ng/g		92	52 - 132	0	30
Perfluorohexadecanoic acid			25.0	23.4		ng/g		94	44 - 161	3	30
Perfluorooctadecanoic acid			25.0	20.4		ng/g		81	16 - 175	8	30
Perfluorobutanoic acid			25.0	21.8		ng/g		87	50 - 185	9	30
Perfluoropentanoic acid			25.0	24.7		ng/g		99	69 - 144	1	30
NMeFOSE			25.0	22.0		ng/g		88	47 - 138	5	30
NMeFOSA			25.0	22.4		ng/g		89	43 - 134	1	30
NEtFOSE			25.0	22.3		ng/g		89	46 - 134	6	30
NEtFOSA			25.0	21.3		ng/g		85	48 - 130	3	30
HFPODA			25.0	33.3		ng/g		133	29 - 162	21	30
DONA			23.6	25.7		ng/g		109	48 - 155	3	30
9Cl-PF3ONS			23.3	20.4		ng/g		88	48 - 146	0	30
11Cl-PF3OUdS			23.3	22.3		ng/g		96	45 - 145	4	30
Perfluorododecanoic acid			25.0	26.8		ng/g		107	60 - 147	8	30
4:2 Fluorotelomer sulfonic acid			23.4	22.2		ng/g		95	55 - 132	7	30
Perfluoroundecanoic acid			25.0	24.8		ng/g		99	62 - 144	11	30
6:2 Fluorotelomer sulfonic acid			23.7	22.9		ng/g		97	53 - 137	9	30
8:2 Fluorotelomer sulfonic acid			24.0	21.9		ng/g		91	50 - 147	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*116*		*10 - 169*
M2-8:2 FTS	*127*		*10 - 178*
M2-6:2 FTS	*121*		*10 - 182*
13C5 PFHxA	*105*		*11 - 138*
13C4 PFHpA	*106*		*15 - 139*
13C8 PFOA	*109*		*21 - 133*
13C9 PFNA	*99*		*15 - 145*
13C6 PFDA	*106*		*21 - 134*
13C7 PFUnA	*105*		*15 - 138*
13C2-PFDoDA	*96*		*28 - 126*
13C2 PFTeDA	*95*		*10 - 138*
13C3 PFBS	*113*		*23 - 130*
13C3 PFHxS	*116*		*24 - 136*
13C8 PFOS	*111*		*31 - 130*
d3-NMeFOSAA	*114*		*10 - 172*
d5-NEtFOSAA	*100*		*10 - 176*
13C8 FOSA	*110*		*25 - 135*
13C4 PFBA	*98*		*12 - 137*
13C5 PFPeA	*96*		*12 - 135*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-174354/3-B
Matrix: Solid
Analysis Batch: 174703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174354

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d7-N-MeFOSE-M	108		10 - 152
d3-NMePFOSA	103		10 - 148
d9-N-EtFOSE-M	103		10 - 157
d5-NEtPFOSA	101		10 - 151
13C3 HFPO-DA	76		10 - 152

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-174313/1-A
Matrix: Water
Analysis Batch: 175479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluoroheptanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorooctanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorononanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorodecanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorotridecanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorotetradecanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorobutanesulfonic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorohexanesulfonic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorooctanesulfonic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
NEtFOSAA	<0.50		3.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
NMeFOSAA	<0.60		2.0	0.60	ng/L		09/22/21 17:20	09/26/21 18:35	1
10:2 FTS	<1.0		5.0	1.0	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluoropentanesulfonic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluoroheptanesulfonic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorononanesulfonic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorodecanesulfonic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.50		3.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorooctanesulfonamide	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorohexadecanoic acid	<1.0		3.0	1.0	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorooctadecanoic acid	<1.0		3.0	1.0	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorobutanoic acid	<2.0		5.0	2.0	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluoropentanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
NMeFOSE	<1.0		3.0	1.0	ng/L		09/22/21 17:20	09/26/21 18:35	1
NMeFOSA	<1.0		3.0	1.0	ng/L		09/22/21 17:20	09/26/21 18:35	1
NEtFOSE	<1.0		3.0	1.0	ng/L		09/22/21 17:20	09/26/21 18:35	1
NEtFOSA	<1.0		5.0	1.0	ng/L		09/22/21 17:20	09/26/21 18:35	1
HFPODA	<0.50		3.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
DONA	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
9Cl-PF3ONS	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
11Cl-PF3OUdS	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluorododecanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
4:2 Fluorotelomer sulfonic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
Perfluoroundecanoic acid	<0.50		2.0	0.50	ng/L		09/22/21 17:20	09/26/21 18:35	1
6:2 Fluorotelomer sulfonic acid	<2.0		5.0	2.0	ng/L		09/22/21 17:20	09/26/21 18:35	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-174313/1-A
Matrix: Water
Analysis Batch: 175479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 Fluorotelomer sulfonic acid	<1.0		3.0	1.0	ng/L		09/22/21 17:20	09/26/21 18:35	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*20 - 187*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
M2-8:2 FTS	*113*		*34 - 182*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
M2-6:2 FTS	*106*		*29 - 189*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C5 PFHxA	*107*		*31 - 142*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C4 PFHpA	*101*		*30 - 144*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C8 PFOA	*105*		*49 - 127*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C9 PFNA	*116*		*47 - 136*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C6 PFDA	*109*		*47 - 128*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C7 PFUnA	*98*		*40 - 135*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C2-PFDoDA	*99*		*28 - 136*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C2 PFTeDA	*97*		*10 - 144*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C3 PFBS	*112*		*19 - 178*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C3 PFHxS	*100*		*32 - 145*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C8 PFOS	*114*		*49 - 126*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
d3-NMeFOSAA	*114*		*32 - 151*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
d5-NEtFOSAA	*107*		*37 - 164*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C8 FOSA	*92*		*10 - 143*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C4 PFBA	*106*		*41 - 132*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C5 PFPeA	*107*		*33 - 155*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
d7-N-MeFOSE-M	*96*		*10 - 143*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
d3-NMePFOSA	*78*		*10 - 107*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
d9-N-EtFOSE-M	*103*		*10 - 142*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
d5-NEtPFOSA	*80*		*10 - 108*	*09/22/21 17:20*	*09/26/21 18:35*	*1*
13C3 HFPO-DA	*109*		*20 - 153*	*09/22/21 17:20*	*09/26/21 18:35*	*1*

Lab Sample ID: LCS 410-174313/2-A
Matrix: Water
Analysis Batch: 175479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.6	27.9		ng/L		109	66 - 137
Perfluoroheptanoic acid	25.6	28.1		ng/L		110	66 - 141
Perfluorooctanoic acid	25.6	26.0		ng/L		102	65 - 136
Perfluorononanoic acid	25.6	28.2		ng/L		110	65 - 140
Perfluorodecanoic acid	25.6	24.3		ng/L		95	63 - 137
Perfluorotridecanoic acid	25.6	28.0		ng/L		109	58 - 146
Perfluorotetradecanoic acid	25.6	27.4		ng/L		107	64 - 141
Perfluorobutanesulfonic acid	22.7	23.0		ng/L		102	65 - 132
Perfluorohexanesulfonic acid	23.3	25.1		ng/L		108	60 - 128
Perfluorooctanesulfonic acid	23.7	24.2		ng/L		102	51 - 126
NEtFOSAA	25.6	25.9		ng/L		101	54 - 134
NMeFOSAA	25.6	25.1		ng/L		98	58 - 143
10:2 FTS	24.7	21.2		ng/L		86	44 - 141
Perfluoropentanesulfonic acid	24.0	23.3		ng/L		97	71 - 136
Perfluoroheptanesulfonic acid	24.4	25.4		ng/L		104	67 - 135
Perfluorononanesulfonic acid	24.6	21.9		ng/L		89	67 - 137

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-174313/2-A
Matrix: Water
Analysis Batch: 175479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorodecanesulfonic acid	24.7	23.1		ng/L		93	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	24.8	24.8		ng/L		100	54 - 136
Perfluorooctanesulfonamide	25.6	26.7		ng/L		104	55 - 130
Perfluorohexadecanoic acid	25.6	23.4		ng/L		91	52 - 149
Perfluorooctadecanoic acid	25.6	18.9		ng/L		74	32 - 167
Perfluorobutanoic acid	25.6	23.5		ng/L		92	62 - 156
Perfluoropentanoic acid	25.6	26.0		ng/L		102	72 - 139
NMeFOSE	25.6	26.8		ng/L		105	52 - 131
NMeFOSA	25.6	24.4		ng/L		95	49 - 141
NEtFOSE	25.6	24.6		ng/L		96	49 - 128
NEtFOSA	25.6	25.2		ng/L		98	50 - 136
HFPODA	25.6	25.8		ng/L		101	37 - 147
DONA	24.2	27.2		ng/L		113	49 - 158
9Cl-PF3ONS	23.8	23.6		ng/L		99	52 - 135
11Cl-PF3OUdS	23.8	24.3		ng/L		102	45 - 134
Perfluorododecanoic acid	25.6	26.7		ng/L		104	63 - 140
4:2 Fluorotelomer sulfonic acid	23.9	20.7		ng/L		86	59 - 130
Perfluoroundecanoic acid	25.6	29.0		ng/L		113	62 - 138
6:2 Fluorotelomer sulfonic acid	24.3	23.2		ng/L		95	57 - 137
8:2 Fluorotelomer sulfonic acid	24.5	22.6		ng/L		92	56 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*105*		*20 - 187*
M2-8:2 FTS	*108*		*34 - 182*
M2-6:2 FTS	*111*		*29 - 189*
13C5 PFHxA	*100*		*31 - 142*
13C4 PFHpA	*101*		*30 - 144*
13C8 PFOA	*109*		*49 - 127*
13C9 PFNA	*108*		*47 - 136*
13C6 PFDA	*109*		*47 - 128*
13C7 PFUnA	*93*		*40 - 135*
13C2-PFDoDA	*96*		*28 - 136*
13C2 PFTeDA	*90*		*10 - 144*
13C3 PFBS	*111*		*19 - 178*
13C3 PFHxS	*98*		*32 - 145*
13C8 PFOS	*109*		*49 - 126*
d3-NMeFOSAA	*103*		*32 - 151*
d5-NEtFOSAA	*105*		*37 - 164*
13C8 FOSA	*85*		*10 - 143*
13C4 PFBA	*101*		*41 - 132*
13C5 PFPeA	*107*		*33 - 155*
d7-N-MeFOSE-M	*90*		*10 - 143*
d3-NMePFOSA	*61*		*10 - 107*
d9-N-EtFOSE-M	*97*		*10 - 142*
d5-NEtPFOSA	*60*		*10 - 108*
13C3 HFPO-DA	*107*		*20 - 153*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-174313/3-A
Matrix: Water
Analysis Batch: 175479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174313

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	28.0		ng/L		109	66 - 137	0	30
Perfluoroheptanoic acid			25.6	28.7		ng/L		112	66 - 141	2	30
Perfluorooctanoic acid			25.6	27.2		ng/L		106	65 - 136	5	30
Perfluorononanoic acid			25.6	30.9		ng/L		121	65 - 140	9	30
Perfluorodecanoic acid			25.6	24.9		ng/L		97	63 - 137	3	30
Perfluorotridecanoic acid			25.6	29.7		ng/L		116	58 - 146	6	30
Perfluorotetradecanoic acid			25.6	28.2		ng/L		110	64 - 141	3	30
Perfluorobutanesulfonic acid			22.7	23.7		ng/L		104	65 - 132	3	30
Perfluorohexanesulfonic acid			23.3	24.7		ng/L		106	60 - 128	2	30
Perfluorooctanesulfonic acid			23.7	25.8		ng/L		109	51 - 126	6	30
NEtFOSAA			25.6	25.0		ng/L		98	54 - 134	4	30
NMeFOSAA			25.6	25.2		ng/L		99	58 - 143	1	30
10:2 FTS			24.7	21.1		ng/L		85	44 - 141	1	30
Perfluoropentanesulfonic acid			24.0	22.9		ng/L		96	71 - 136	2	30
Perfluoroheptanesulfonic acid			24.4	25.4		ng/L		104	67 - 135	0	30
Perfluorononanesulfonic acid			24.6	22.8		ng/L		93	67 - 137	4	30
Perfluorodecanesulfonic acid			24.7	23.8		ng/L		97	61 - 134	3	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	25.6		ng/L		103	54 - 136	3	30
Perfluorooctanesulfonamide			25.6	25.7		ng/L		100	55 - 130	4	30
Perfluorohexadecanoic acid			25.6	23.0		ng/L		90	52 - 149	1	30
Perfluorooctadecanoic acid			25.6	19.5		ng/L		76	32 - 167	3	30
Perfluorobutanoic acid			25.6	24.7		ng/L		97	62 - 156	5	30
Perfluoropentanoic acid			25.6	27.5		ng/L		107	72 - 139	6	30
NMeFOSE			25.6	29.8		ng/L		116	52 - 131	10	30
NMeFOSA			25.6	27.3		ng/L		107	49 - 141	11	30
NEtFOSE			25.6	25.4		ng/L		99	49 - 128	3	30
NEtFOSA			25.6	25.5		ng/L		100	50 - 136	1	30
HFPODA			25.6	26.0		ng/L		101	37 - 147	1	30
DONA			24.2	27.6		ng/L		114	49 - 158	1	30
9Cl-PF3ONS			23.8	24.1		ng/L		101	52 - 135	2	30
11Cl-PF3OUdS			23.8	25.3		ng/L		106	45 - 134	4	30
Perfluorododecanoic acid			25.6	28.5		ng/L		111	63 - 140	6	30
4:2 Fluorotelomer sulfonic acid			23.9	22.9		ng/L		96	59 - 130	10	30
Perfluoroundecanoic acid			25.6	30.9		ng/L		121	62 - 138	6	30
6:2 Fluorotelomer sulfonic acid			24.3	24.9		ng/L		103	57 - 137	7	30
8:2 Fluorotelomer sulfonic acid			24.5	22.1		ng/L		90	56 - 140	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*93*		*20 - 187*
M2-8:2 FTS	*100*		*34 - 182*
M2-6:2 FTS	*101*		*29 - 189*
13C5 PFHxA	*92*		*31 - 142*
13C4 PFHpA	*93*		*30 - 144*
13C8 PFOA	*100*		*49 - 127*
13C9 PFNA	*99*		*47 - 136*
13C6 PFDA	*100*		*47 - 128*
13C7 PFUnA	*85*		*40 - 135*
13C2-PFDoDA	*87*		*28 - 136*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-174313/3-A
Matrix: Water
Analysis Batch: 175479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174313

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFTeDA	85		10 - 144
13C3 PFBS	109		19 - 178
13C3 PFHxS	93		32 - 145
13C8 PFOS	104		49 - 126
d3-NMeFOSAA	98		32 - 151
d5-NEtFOSAA	95		37 - 164
13C8 FOSA	82		10 - 143
13C4 PFBA	97		41 - 132
13C5 PFPeA	98		33 - 155
d7-N-MeFOSE-M	82		10 - 143
d3-NMePFOSA	67		10 - 107
d9-N-EtFOSE-M	87		10 - 142
d5-NEtPFOSA	71		10 - 108
13C3 HFPO-DA	103		20 - 153

LCMS

Prep Batch: 174313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55663-14	Trip Blank	Total/NA	Water	EPA 537 (mod)	
MB 410-174313/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-174313/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-174313/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 174354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55663-1	SP-16-S-01-02	Total/NA	Solid	537 (mod)	
410-55663-2	SP-16-S-03-04	Total/NA	Solid	537 (mod)	
410-55663-3	SP-17-S-01-02	Total/NA	Solid	537 (mod)	
410-55663-4	SP-17-S-03-04	Total/NA	Solid	537 (mod)	
410-55663-5	SP-17-S-01-02DUP	Total/NA	Solid	537 (mod)	
410-55663-6	SP-18-S-01-02	Total/NA	Solid	537 (mod)	
410-55663-7	SP-18-S-03-04	Total/NA	Solid	537 (mod)	
410-55663-8	SP-19-S-01-02	Total/NA	Solid	537 (mod)	
410-55663-9	SP-19-S-03-04	Total/NA	Solid	537 (mod)	
410-55663-10	SP-20-S-01-02	Total/NA	Solid	537 (mod)	
410-55663-11 - RA	SP-20-S-03-04	Total/NA	Solid	537 (mod)	
410-55663-11	SP-20-S-03-04	Total/NA	Solid	537 (mod)	
410-55663-12	SP-21-S-01-02	Total/NA	Solid	537 (mod)	
410-55663-13	SP-21-S-03-04	Total/NA	Solid	537 (mod)	
MB 410-174354/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-174354/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-174354/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 174378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55663-1	SP-16-S-01-02	Total/NA	Solid	Extract Aliquot	174354
410-55663-2	SP-16-S-03-04	Total/NA	Solid	Extract Aliquot	174354
410-55663-3	SP-17-S-01-02	Total/NA	Solid	Extract Aliquot	174354
410-55663-4	SP-17-S-03-04	Total/NA	Solid	Extract Aliquot	174354
410-55663-5	SP-17-S-01-02DUP	Total/NA	Solid	Extract Aliquot	174354
410-55663-6	SP-18-S-01-02	Total/NA	Solid	Extract Aliquot	174354
410-55663-7	SP-18-S-03-04	Total/NA	Solid	Extract Aliquot	174354
410-55663-8	SP-19-S-01-02	Total/NA	Solid	Extract Aliquot	174354
410-55663-9	SP-19-S-03-04	Total/NA	Solid	Extract Aliquot	174354
410-55663-10	SP-20-S-01-02	Total/NA	Solid	Extract Aliquot	174354
410-55663-11 - RA	SP-20-S-03-04	Total/NA	Solid	Extract Aliquot	174354
410-55663-11	SP-20-S-03-04	Total/NA	Solid	Extract Aliquot	174354
410-55663-12	SP-21-S-01-02	Total/NA	Solid	Extract Aliquot	174354
410-55663-13	SP-21-S-03-04	Total/NA	Solid	Extract Aliquot	174354
MB 410-174354/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	174354
LCS 410-174354/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	174354
LCSD 410-174354/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	174354

Analysis Batch: 174703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55663-1	SP-16-S-01-02	Total/NA	Solid	537 IDA	174378
410-55663-2	SP-16-S-03-04	Total/NA	Solid	537 IDA	174378
410-55663-3	SP-17-S-01-02	Total/NA	Solid	537 IDA	174378
410-55663-4	SP-17-S-03-04	Total/NA	Solid	537 IDA	174378

LCMS (Continued)

Analysis Batch: 174703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55663-5	SP-17-S-01-02DUP	Total/NA	Solid	537 IDA	174378
410-55663-6	SP-18-S-01-02	Total/NA	Solid	537 IDA	174378
410-55663-7	SP-18-S-03-04	Total/NA	Solid	537 IDA	174378
410-55663-8	SP-19-S-01-02	Total/NA	Solid	537 IDA	174378
410-55663-9	SP-19-S-03-04	Total/NA	Solid	537 IDA	174378
410-55663-10	SP-20-S-01-02	Total/NA	Solid	537 IDA	174378
410-55663-11	SP-20-S-03-04	Total/NA	Solid	537 IDA	174378
410-55663-12	SP-21-S-01-02	Total/NA	Solid	537 IDA	174378
410-55663-13	SP-21-S-03-04	Total/NA	Solid	537 IDA	174378
MB 410-174354/1-B	Method Blank	Total/NA	Solid	537 IDA	174378
LCS 410-174354/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	174378
LCSD 410-174354/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	174378

Analysis Batch: 175479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55663-14	Trip Blank	Total/NA	Water	EPA 537 (Mod)	174313
MB 410-174313/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	174313
LCS 410-174313/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	174313
LCSD 410-174313/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	174313

Analysis Batch: 176793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55663-11 - RA	SP-20-S-03-04	Total/NA	Solid	537 IDA	174378

General Chemistry

Analysis Batch: 174003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55663-1	SP-16-S-01-02	Total/NA	Solid	Moisture	
410-55663-2	SP-16-S-03-04	Total/NA	Solid	Moisture	
410-55663-3	SP-17-S-01-02	Total/NA	Solid	Moisture	
410-55663-4	SP-17-S-03-04	Total/NA	Solid	Moisture	
410-55663-5	SP-17-S-01-02DUP	Total/NA	Solid	Moisture	
410-55663-6	SP-18-S-01-02	Total/NA	Solid	Moisture	
410-55663-7	SP-18-S-03-04	Total/NA	Solid	Moisture	
410-55663-8	SP-19-S-01-02	Total/NA	Solid	Moisture	
410-55663-9	SP-19-S-03-04	Total/NA	Solid	Moisture	
410-55663-10	SP-20-S-01-02	Total/NA	Solid	Moisture	
410-55663-11	SP-20-S-03-04	Total/NA	Solid	Moisture	
410-55663-12	SP-21-S-01-02	Total/NA	Solid	Moisture	
410-55663-13	SP-21-S-03-04	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: SP-16-S-01-02
Date Collected: 09/15/21 16:15
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-16-S-01-02
Date Collected: 09/15/21 16:15
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-1
Matrix: Solid
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 19:58	JVK6	ELLE

Client Sample ID: SP-16-S-03-04
Date Collected: 09/15/21 16:25
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-16-S-03-04
Date Collected: 09/15/21 16:25
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-2
Matrix: Solid
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 20:10	JVK6	ELLE

Client Sample ID: SP-17-S-01-02
Date Collected: 09/16/21 09:55
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-17-S-01-02
Date Collected: 09/16/21 09:55
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-3
Matrix: Solid
Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 20:21	JVK6	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: SP-17-S-03-04
Date Collected: 09/16/21 10:05
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-17-S-03-04
Date Collected: 09/16/21 10:05
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-4
Matrix: Solid
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 20:32	JVK6	ELLE

Client Sample ID: SP-17-S-01-02DUP
Date Collected: 09/16/21 09:55
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-17-S-01-02DUP
Date Collected: 09/16/21 09:55
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-5
Matrix: Solid
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 20:43	JVK6	ELLE

Client Sample ID: SP-18-S-01-02
Date Collected: 09/16/21 10:50
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-18-S-01-02
Date Collected: 09/16/21 10:50
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-6
Matrix: Solid
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 20:54	JVK6	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: SP-18-S-03-04
Date Collected: 09/16/21 11:00
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-18-S-03-04
Date Collected: 09/16/21 11:00
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-7
Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 21:05	JVK6	ELLE

Client Sample ID: SP-19-S-01-02
Date Collected: 09/16/21 11:15
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-19-S-01-02
Date Collected: 09/16/21 11:15
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-8
Matrix: Solid
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 21:16	JVK6	ELLE

Client Sample ID: SP-19-S-03-04
Date Collected: 09/16/21 11:25
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-19-S-03-04
Date Collected: 09/16/21 11:25
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-9
Matrix: Solid
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 21:27	JVK6	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: SP-20-S-01-02
Date Collected: 09/16/21 11:40
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-20-S-01-02
Date Collected: 09/16/21 11:40
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-10
Matrix: Solid
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 21:38	JVK6	ELLE

Client Sample ID: SP-20-S-03-04
Date Collected: 09/16/21 11:50
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-20-S-03-04
Date Collected: 09/16/21 11:50
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-11
Matrix: Solid
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 22:00	JVK6	ELLE
Total/NA	Prep	537 (mod)	RA		174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot	RA		174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA	RA	1	176793	09/29/21 20:33	PY4D	ELLE

Client Sample ID: SP-21-S-01-02
Date Collected: 09/16/21 12:05
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-21-S-01-02
Date Collected: 09/16/21 12:05
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-12
Matrix: Solid
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 22:12	JVK6	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Client Sample ID: SP-21-S-03-04
Date Collected: 09/16/21 12:15
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174003	09/22/21 07:13	UVJN	ELLE

Client Sample ID: SP-21-S-03-04
Date Collected: 09/16/21 12:15
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-13
Matrix: Solid
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			174354	09/22/21 18:52	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			174378	09/22/21 19:58	K9VR	ELLE
Total/NA	Analysis	537 IDA		1	174703	09/23/21 22:23	JVK6	ELLE

Client Sample ID: Trip Blank
Date Collected: 09/15/21 00:00
Date Received: 09/18/21 09:33

Lab Sample ID: 410-55663-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			174313	09/22/21 17:20	AVS6	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	175479	09/26/21 20:26	UUV6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 IDA	537 (mod)	Solid	10:2 FTS
537 IDA	537 (mod)	Solid	11Cl-PF3OUdS
537 IDA	537 (mod)	Solid	4:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	6:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	8:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	9Cl-PF3ONS
537 IDA	537 (mod)	Solid	DONA
537 IDA	537 (mod)	Solid	HFPODA
537 IDA	537 (mod)	Solid	NEtFOSA
537 IDA	537 (mod)	Solid	NEtFOSAA
537 IDA	537 (mod)	Solid	NEtFOSE
537 IDA	537 (mod)	Solid	NMeFOSA
537 IDA	537 (mod)	Solid	NMeFOSAA
537 IDA	537 (mod)	Solid	NMeFOSE
537 IDA	537 (mod)	Solid	Perfluorobutanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorobutanoic acid
537 IDA	537 (mod)	Solid	Perfluorodecanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorodecanoic acid
537 IDA	537 (mod)	Solid	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	537 (mod)	Solid	Perfluorododecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorohexanoic acid
537 IDA	537 (mod)	Solid	Perfluorononanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorononanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonamide
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorooctanoic acid
537 IDA	537 (mod)	Solid	Perfluoropentanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoropentanoic acid
537 IDA	537 (mod)	Solid	Perfluorotetradecanoic acid
537 IDA	537 (mod)	Solid	Perfluorotridecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroundecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	10:2 FTS
EPA 537 (Mod)	EPA 537 (mod)	Water	11Cl-PF3OUdS
EPA 537 (Mod)	EPA 537 (mod)	Water	4:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	6:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	8:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	9Cl-PF3ONS
EPA 537 (Mod)	EPA 537 (mod)	Water	DONA
EPA 537 (Mod)	EPA 537 (mod)	Water	HFPODA
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSA

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSAA
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSE
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSA
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSAA
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSE
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorododecanesulfonic acid (PFDoS)
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorododecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexadecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctadecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonamide
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotetradecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotridecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroundecanoic acid
Moisture		Solid	Percent Moisture

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-55663-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-55663-1	SP-16-S-01-02	Solid	09/15/21 16:15	09/18/21 09:33
410-55663-2	SP-16-S-03-04	Solid	09/15/21 16:25	09/18/21 09:33
410-55663-3	SP-17-S-01-02	Solid	09/16/21 09:55	09/18/21 09:33
410-55663-4	SP-17-S-03-04	Solid	09/16/21 10:05	09/18/21 09:33
410-55663-5	SP-17-S-01-02DUP	Solid	09/16/21 09:55	09/18/21 09:33
410-55663-6	SP-18-S-01-02	Solid	09/16/21 10:50	09/18/21 09:33
410-55663-7	SP-18-S-03-04	Solid	09/16/21 11:00	09/18/21 09:33
410-55663-8	SP-19-S-01-02	Solid	09/16/21 11:15	09/18/21 09:33
410-55663-9	SP-19-S-03-04	Solid	09/16/21 11:25	09/18/21 09:33
410-55663-10	SP-20-S-01-02	Solid	09/16/21 11:40	09/18/21 09:33
410-55663-11	SP-20-S-03-04	Solid	09/16/21 11:50	09/18/21 09:33
410-55663-12	SP-21-S-01-02	Solid	09/16/21 12:05	09/18/21 09:33
410-55663-13	SP-21-S-03-04	Solid	09/16/21 12:15	09/18/21 09:33
410-55663-14	Trip Blank	Water	09/15/21 00:00	09/18/21 09:33

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

410-55663 Chain of Custody

Client Information	Sampler: M. KENNEY / K. CHAPPELL	Lab PM: Zanar, Elizabeth M	QC No: 10-33768-10514.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	Page: Page 1 of 2
Company: Weston Solutions, Inc.	PWSID:		Job #:
Address: 43 North Main Street	Due Date Requested:		
City: Concord	TAT Requested (days): STANDARD		
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No		
Phone: 860 712 2684	PO #: 0102971		
Email: Matthew.Kenney@WestonSolutions.com	WO #:		
Project Name: Nantucket (Soils)	Project #: 41001960		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Moisture - Moisture	PFC_IDA - 36 PFAS	Total Number of Containers	Special Instructions/Note:
SP-16-S-01-02	9/15/21	1615	G	Solid	X	X		
SP-16-S-03-04	9/15/21	1625		Solid				
SP-17-S-01-02	9/16/21	0955		Solid				
SP-17-S-03-04		1005		Solid				
SP-17-S-01-02 DUP		0955		Solid				
SP-18-S-01-02		1050		Solid				
SP-18-S-03-04		1100		Solid				
SP-19-S-01-02		1115		Solid				
SP-19-S-03-04		1125		Solid				
SP-20-S-01-02		1140		Solid				
SP-20-S-03-04		1150		Solid				

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FEDEX

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	9-13-21 12:02	ELLE	[signature]	9/14/21 1900	WESTON
[signature]	9/17/21 1300	WESTON			
			[signature]	9/18/21 0933	DWG

Custody Seals Intact: X Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.5

Ver: 06/08/2021

9/30/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY / K. CHAPPELL	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s): WHP	COC No: 410-33768-10514.2
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@eurofinset.com	State of Origin: ~~NH~~ MA	Page: Page 2 of 2
Company: Weston Solutions, Inc.	PWSID:			Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket (Soils)	Project #: 41001960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Filtered Sample (Yes or No)	Perform (Yes or No)	Moisture - Moisture	PFC_IDA - 36 PFAS	Total Number of containers	Special Instructions/Note:
			Preservation Code		X	X	N	N	X	
SP-21-S-01-02	9/16/21	1205	G	Solid			X	X		
SP-21-S-03-04		1215		Solid			X	X		
TRIP BLANK		—	—	~~Solid~~ WATER				X		
				Solid						
				Solid						
				Solid						
	MK			Solid						
				Solid						
				Solid						
				Water						
				Water						

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FED EX

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Matt Kenney	9/17/21 1300	WESTON			
			[signature]	9/18/21 0933	DMG

Custody Seals Intact: ☒ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.5

Ver: 06/08/2021

R

MK

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-55663-1

Login Number: 55663
List Number: 1
Creator: Lugardo, Tamara

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env, LLC Project #: 410-55663-1

Project Location: Nantucket RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Leah Graybeal **Position:** Data Packaging Technician I

Printed Name: Leah Graybeal, designee for Elizabeth Zanar, Project Manager **Date:** 09/30/2021