IMMEDIATE RESPONSE ACTION
STATUS REPORT NO. 13
NANTUCKET MEMORIAL AIRPORT
14 AIRPORT ROAD
NANTUCKET, MASSACHUSETTS

RTN 4-28219

Prepared for:

Nantucket Memorial Airport
Nantucket, Massachusetts

Prepared by:

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LIST OF ACRONYMS

ACK	Nantucket Memorial Airport
AFFF	aqueous film-forming foam
bgs	below ground surface
CFR	Code of Federal Regulation
CMR	Code of Massachusetts Regulations
COC	chain-of-custody
Commission	Nantucket Memorial Airport Commission
CSA	Comprehensive Site Assessment
Disposal Site or Site	14 Airport Road, Nantucket, Massachusetts
EPA	United States Environmental Protection Agency
Eurofins	Eurofins Lancaster Laboratories Environmental
F3	fluorine-free foam
ft	feet/foot
GAC	granular activated carbon
HDPE	high-density polyethylene
IH	Imminent Hazard
IRA	Immediate Response Action
MassDEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
MVR	Madequecham Valley Road
ng/L	nanograms per liter
PFAS	per- and polyfluoroalkyl substances
PFDA	perfluorodecanoic acid
PFHpA	perfluoroheptanoic acid
PFHxS	perfluorohexanesulfonic acid
PFNA	perfluorononanoic acid
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
PID	photoionization detector
POET	point-of-entry treatment
ppt	parts per trillion
RTN	Release Tracking Number
USCS	Unified Soil Classification System
WESTON®	Weston Solutions, Inc.
WWCO	Wannacomet Water Company

SECTION 1

INTRODUCTION

1 INTRODUCTION

On behalf of the Nantucket Memorial Airport Commission (the "Commission"), owner and operator of the Nantucket Memorial Airport (ACK), Weston Solutions, Inc. (WESTON®) has prepared this Immediate Response Action (IRA) Status Report for the Disposal Site associated with Release Tracking Number (RTN) 4-28219. This IRA Status Report was prepared in accordance with the Massachusetts Contingency Plan (MCP), 310 Code of Massachusetts Regulations (CMR) 40.0425, and as required by the Massachusetts Department of Environmental Protection (MassDEP). This report is submitted to MassDEP via the online filing system under Transmittal Form BWSC-105 and covers the period from 1 July 2022 through 31 December 2022.

The person or entity assuming responsibility for conducting the IRA is the current owner of the property:

Nantucket Memorial Airport
c/o Mr. Noah Karberg, Airport Manager
14 Airport Road
Nantucket, MA 02554
(508) 325-5300

For the purposes of this report, the "Site" is defined as the area located within the legal property boundaries of 14 Airport Road in Nantucket, Massachusetts (Figure 1). The "Disposal Site" for RTN 4-28219 includes additional properties to the south of the airport property (Figure 2) where contaminants potentially related to ACK have been identified in groundwater and areas west of the airport property where contaminants have been detected in soil. The extent of the Disposal Site is estimated and will be further refined through ongoing investigations being conducted as part of the Comprehensive Site Assessment.

SECTION 2

DESCRIPTION OF THE SITE AND RELEASE

2 DESCRIPTION OF THE SITE AND RELEASE

2.1 GENERAL DISPOSAL SITE INFORMATION

The Disposal Site includes multiple parcels of land, the majority of which are in use by ACK while the remainder are commercial or residential in nature. The location of the Site is presented on Figure 1, and a detailed site plan is presented as Figure 2.

The Site is a cleared area that includes runways, taxiways, a fuel farm, numerous buildings related to airport operations (terminal, hangars, maintenance, administration, etc.), and lots occupied by commercial aviation-related tenants. North and west of ACK are residential and commercial properties, while to the east, the land is largely undeveloped. A line of beachfront homes is located to the south, between ACK and the Atlantic Ocean. The Wannacomet Water Company (WWCO) supplies municipal water to ACK and many of the surrounding properties. WWCO obtains its water from four groundwater supply wells located within the Sole Source Aquifer that underlies the entire island of Nantucket. One private water supply well was identified on ACK property and serves an unoccupied hangar located north of the ACK administration buildings. In addition, there are two operational irrigation wells located on or immediately adjacent to the Disposal Site: one irrigates Statue Park and the second irrigates the landscaping in the airport parking lot.

Twenty-two former private drinking water supply wells are located within 500 feet (ft) and downgradient (south) of the Airport in a residential area along Madequecham Valley Road (MVR). These homes are primarily seasonal vacation homes inhabited by adults and children that represent potential receptors during the summer months. As of 31 December 2022, all 15 water supply wells that were initially determined to have PFAS concentrations exceeding the Method 1 GW-1 standards have been removed from service and the associated homes connected to a municipal water line that was extended to that area by ACK, thereby mitigating any risk to those receptors. Recent sampling of the remaining homes has identified another well that now exceeds (residence BI) and that home will be connected to the water line this spring once the home reopens.

A second residential area that is serviced by a combination of private drinking water wells and municipal water is located cross gradient (west) of the Airport. Some of these homes are within proximity of known aqueous film-forming foam (AFFF) application areas Runway 6 Run Up, South Ramp at B, and South Ramp at J, as well as the Fuel Farm where a spray fire suppression

system was periodically tested (Figure 2). The Fuel Farm fire suppression system was converted to fluorine-free foam in April 2022. Most of these residences are occupied year-round by adults and children who represent potential receptors. As of 31 December 2022, four of the five homes where PFAS were found at concentrations exceeding the Method 1 GW-1 standard have been connected to the municipal water supply by ACK to mitigate risk. The owner of the remaining home (residence IP) has refused connection to the water line.

2.2 DESCRIPTION OF THE RELEASE

In February 2020, per- and polyfluoroalkyl substances (PFAS) were detected in the drinking water well at a home located south of the Airport on MVR, and in several monitoring wells at the Airport at concentrations exceeding the RCGW-1 criteria[1]. Subsequent sampling has identified additional homes along MVR that have PFAS in their water supply wells.

At this time, the majority of releases at the Site are believed to be associated with AFFF discharged at ACK as part of the Federal Aviation Administration-required testing and training events described in detail in the 2020 IRA Plan (WESTON, 2020a). Per 14 Code of Federal Regulation (CFR) §139.315-319, ACK has used AFFF: (1) as part of its storage of readiness and reserve; and (2) during required drills, training, testing, and maintenance activities. Under 14 CFR §139.321 and National Fire Protection Association 407, AFFF is not believed to have been used for any emergencies at the Airport since at least 1989. Further, ACK is now using an E-ONE testing system for its aircraft rescue and firefighting vehicles that does not require any release of AFFF to the environment.

ACK has also stored AFFF for fire suppression readiness at the Airport's Fuel Farm. Periodic testing of the fire suppression systems at the Fuel Farm resulted in discharges of AFFF to the containment structures around the Fuel Farm and the truck loading rack. Stormwater that accumulated in the containment areas was periodically pumped out and discharged to a nearby infiltration system. Currently, stormwater pumped from the containment areas is treated to remove PFAS prior to discharge to the infiltration system. ACK has converted its Fuel Farm fire

[1] RCGW-1 criteria refer to the concentration of oil or hazardous material in groundwater that requires notification to MassDEP per 310 CMR 40.0360 through 40.0362 where GW-1 concentrations are based on the use of groundwater as drinking water now or in the foreseeable future.

suppression systems to a fluorine-free foam (F3) system, with construction of the new system completed in April 2022.

At this point, no future AFFF release to the environment is anticipated unless as part of a response to an aircraft incident, and all releases are believed to be historical.

A list of known AFFF application events is provided below, and their approximate locations are shown on Figure 2. However, it should be noted that other potential sources of PFAS in groundwater, including AFFF applications by parties other than the Airport, have not yet been fully investigated and therefore cannot be ruled out. For instance, a recent study conducted by the University of Massachusetts in cooperation with MassDEP has identified PFAS in private drinking water wells upgradient (north) of the Airport and investigations by the Town of Nantucket into fire suppression testing at Sun Island Fuels (also located upgradient of the Airport) has verified that there are other sources of PFAS in the vicinity of the Site. MassDEP has issued a Notice of Responsibility to Sun Island Fuels and has issued Release Tracking Number 4-29303 for that facility. Further investigations to determine the full nature and extent of the PFAS impacts associated with the Airport and identify the source(s) are currently ongoing as part of Comprehensive Response Actions.

AFFF APPLICATION AREA	APPROXIMATE TIMEFRAME OF APPLICATION	ESTIMATED VOLUME OF AFFF CONCENTRATE APPLIED
RW6 RUN UP	1995–2015	25–50 gallons
SOUTH RAMP AT J	2015–2018	25–50 gallons
FUEL FARM	1998–2013	~200 gallons
SOUTH RAMP AT B	1995–2015	25–50 gallons
SAND PIT	1989–1994, 2008	150–300 gallons
RW15/33 MIDPOINT	1989–2013	~625 gallons
STROJNY LOT	2015–2019	600–750 gallons
RW24 APPROACH	1995–2015	275–550 gallons
SRE BUILDING	2015	Unknown

As mentioned above, the presence of PFAS in groundwater was first confirmed in February 2020 and subsequently reported to MassDEP. Concentrations of PFAS were observed to exceed Category RCGW-1 Reportable Concentrations of 20 nanograms per liter (ng/L) for the six PFAS

[perfluoroheptanoic acid (PFHpA), perfluorohexanesulfonic acid (PFHxS), perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), perfluorononanoic acid (PFNA), and perfluorodecanoic acid (PFDA)] individually or summed in drinking water and hereafter referred to as "PFAS6." This constituted a 2-hour Reportable Condition pursuant to 310 CMR 40.0311(6); where an oil or hazardous material concentration in a private drinking water supply well is present at concentrations equal to or exceeding the RCGW-1 criterion, even though the home was unoccupied at the time of sample collection. In response, MassDEP assigned RTN 4-28219 to this release. MassDEP verbally approved initial IRA activities, including design and installation of a point-of-entry treatment (POET) system for the impacted residence. The detection of PFAS6 in the drinking water supply represents a Critical Exposure Pathway as defined by the MCP. Additional details and the results of this effort can be found in the 2020 IRA Plan (WESTON, 2020a).

Subsequent IRA activities identified other private water supply wells that were impacted by the presence of PFAS6 in groundwater that may be related to the historic use of AFFF at the Airport. All identified exposures were mitigated by supplying bottled water or installing POET systems as described more fully in Subsection 3.1.

In accordance with the MCP, a Phase I Initial Site Investigation Report and Tier Classification was submitted on 18 December 2020. The Phase I concluded that additional characterization of the source, nature, and extent of PFAS impacts at the Airport was warranted and provided a general Scope of Work for the Phase II Comprehensive Site Assessment (CSA). Investigation activities associated with the Phase II CSA are currently ongoing.

MassDEP issued a letter to ACK dated 1 July 2020, that requested the 2020 IRA Plan be modified to include 10 clarifications as follows:

1) Make every attempt to sample all remaining private drinking water supply wells along MVR for PFAS and document such attempts.
2) Offer bottled water to homeowners with wells within 500 ft of documented impacts of PFAS above 20 ng/L that deny access to sample their well, out of an abundance of caution.
3) Offer bottled water to homeowners that have any detection of any concentration of PFAS, even those below 20 ng/L.
4) Installation of POET systems for private wells that have PFAS concentrations exceeding 200 ng/L are to be prioritized based on exposure risk.

5) For water supply wells where PFAS is found to exceed 200 ng/L, the owners shall be informed of the results and provided bottled water; a POET shall be installed within 2 weeks that treats the entire home including the outdoor spigot, and the owners shall be provided information regarding potential risks and best management practices to minimize exposure until the POET can be installed.
6) Confirmatory PFAS sampling is required at homes along MVR where the PFAS concentration was less than 20 ng/L, including those where PFAS were not detected.
7) All homeowners will be provided copies of their testing results within 30 days of ACK's receipt of the data.
8) For homes with PFAS concentrations greater than 200 ng/L, water from irrigation systems shall be included in the POET system unless it can be demonstrated that procedures to mitigate the exposure have been implemented. For homes where the owner does not want the irrigation system water to be treated due to reduced performance of the irrigation system, the owner will be provided with best management practices to avoid exposure until town water is supplied.
9) MassDEP will be consulted before remediation waste is disposed.
10) Provide a plan to evaluate soil conditions in known AFFF application areas on the Airport.

A modification to the 2020 IRA Plan was included in the August 2020 *IRA Status Report No. 3* (WESTON, 2020d) submitted to MassDEP that incorporated and addressed the 10 clarifications summarized above. As of the submission of the *IRA Status Report No. 9* in February 2021, compliance with all 10 of the conditions enumerated above has been achieved (WESTON, 2021b).

Sampling of residential wells south and west of the Airport identified at total of 28 homes that had PFAS in drinking water above 20 ng/L, all of which were immediately provided bottled water. A total of 18 homes had POET systems installed as an interim remedial measure until the existing water line could be extended to the impacted areas.

Extension of municipal water service to impacted residences on Monohansett Road, Skyline Drive, and MVR commenced in November 2021 and was completed in May 2022. Mitigation measures for affected residences with total PFAS6 concentrations above 20 ng/L have been completed by connection to a municipal water source, with the exception of residence BI on Madequecham Valley Road and IP in the Nobadeer Way Area. Both residences are currently closed for the offseason and a municipal water line connection is planned for BI in spring 2023 when the residence reopens. The owner of residence IP has declined a connection to the municipal water line.

SECTION 3

ASSESSMENT AND REMEDIAL ACTION STATUS

3 ASSESSMENT AND REMEDIAL ACTION STATUS

The information provided in this section addresses the requirements of the MCP as detailed in 310 CMR 40.0425(3)(a) through (e). Additional details regarding the actions completed previously are outlined below and can be found in the submitted reports, as cited.

3.1 STATUS OF ASSESSMENT ACTIVITIES

During this reporting period, two drinking water PFAS sampling events were conducted as follows:

- 23 August 2022
- 16 November 2022

In addition, site investigation activities associated with the Phase II CSA were also completed during the reporting period and are summarized below. A detailed discussion of the sampling performed will be included in the Phase II CSA Report, which will be submitted by 3 March 2024.

3.1.1 Drinking Water Sampling – Madequecham Valley Road

WESTON performed drinking water sampling for PFAS at seven residential properties located on MVR during the dates listed on the following table.

PROPERTY ID	SAMPLE TYPE	23 AUG	16 NOV
AW	PFAS	x	
BI	PFAS	x	x
DX	PFAS	x	
HL	PFAS	x	x
JQ	PFAS	x	
SK	PFAS	x	x
WG	PFAS	x	x

During the November 2022 sampling event, multiple residences were unavailable for sampling. As many of the residences on MVR are seasonal homes, they tend to be occupied intermittently. The residences that could not be sampled were closed/winterized during the November sampling event.

All PFAS samples were collected after purging water for a minimum of 15 minutes. Water was collected directly from the sampling port/spigot/faucet into laboratory-provided sample containers. Sample containers were placed into zip seal plastic bags, packed in an ice-filled cooler, and submitted under standard chain-of-custody (COC) procedures to Eurofins Lancaster Laboratories Environmental (Eurofins) for analysis of PFAS via the United States Environmental Protection Agency (EPA) Method 537 Version 1.1. Analytical results for samples collected during the reporting period are discussed in Subsection 3.2.

3.1.2 Drinking Water Sampling – West Side

WESTON did not perform drinking water sampling at any West Side residences during the reporting period. All homes on the West Side that had been impacted by PFAS have been connected to municipal water and the impacted wells are no longer in use as drinking water supply wells.

3.1.3 Drinking Water Sampling – Nobadeer Way Study Area

On 14 September 2022 and 13 October 2022 drinking water sampling was performed at Property IP. Property IP was the only remaining residence in the Nobadeer Way Study Area whose well had not been sampled due to access issues. The sample was collected after purging water for a minimum of 15 minutes. Water was collected directly from the sampling port/spigot into laboratory-provided sample containers. Sample containers were placed into zip seal plastic bags, packed in an ice-filled cooler, and submitted under standard COC procedures to Eurofins for analysis of PFAS via EPA Method 537 Version 1.1. Analytical results for samples collected during this reporting period are discussed in Subsection 3.2 below. Drinking water sampling locations can be found on Figures 2 and 3.

3.1.4 Fuel Farm Investigation

As mentioned in Section 2.2, ACK now treats stormwater that accumulates in the Fuel Farm containment structures to remove PFAS prior to discharge to the infiltration system. Performance monitoring of the Fuel Farm treatment system was completed on 24 August 2022. Results of this sampling indicated an influent PFAS6 concentration of 556 parts per trillion (ppt). The compound PFHpA was detected in the mid- sample at 36 ppt. No PFAS6 compounds were detected in the

effluent sample. Following the receipt of these results, ACK was advised to discontinue use of the system until the granular activated carbon (GAC) filtration media could be replaced.

On 13 November 2022, the filtration media in the Fuel Farm treatment system was replaced. WESTON contracted Carbon Filtration Systems (CFS) of Johnston, Rhode Island, to perform the physical removal and replacement of the media. A WESTON engineer oversaw and documented all replacement activities. All GAC was removed and replaced in both the lead and lag vessels. In total, 12 drums of spent GAC were generated from the replacement activities. These drums are staged onsite awaiting shipment off island for proper disposal. After replacement activities were complete the WESTON engineer backwashed the media in both vessels to flush out any accumulated debris and the water was discharged to the Fuel Farm catch basin.

On 14 November 2022, the treatment system was reactivated, and on 8 December 2022 performance monitoring was completed. Results of this sampling showed the system functioning normally, though unregulated precursor compound 10:2 fluorotelomer sulfonic acid was detected in low-level concentrations in the midpoint and effluent samples.

3.1.5 Transducer Data Retrieval

On 6 December 2022, data were downloaded from 'Solinst Levelogger 5' pressure transducers previously installed in five monitoring wells (ACK-01, ACK-10, ACK-11, TACK-2, and TACK-4). A 'Solinst Barologger 5' atmospheric pressure and temperature datalogger was installed in TACK-7. The devices were deployed to evaluate potential diurnal variations in groundwater level, effects from pumping of private wells, and tidal influence. Analysis of the transducer data found:

- All wells exhibit an annual fluctuation between 1–1.5 ft, with higher groundwater elevations in late spring (May) and lower groundwater elevations in late fall/early winter (November-December).
- All wells show a daily tidal response of about 0.05 ft.
- Most wells show a classic steady decay curve during periods of no precipitation, with the exception of ACK-11, which appears to be impacted by infiltration of water from a source other than precipitation (possibly irrigation and or wastewater from the Leasehold Property [Airport Gas] carwash).
- TACK-4 exhibited the strongest response to precipitation with a rapid response to most events.

- ACK-10, ACK-11, and TACK-2 exhibited response to larger precipitation events but a more muted response to smaller events. While this is to be expected at ACK-10 and ACK-11 because those wells are located in an area with extensive surface paving, the reason for the limited response at TACK-2 is unknown.
- ACK-1 showed a very elongated response to precipitation events, suggesting this area receives runoff from paved areas and/or is downgradient of an infiltration area; this is likely due to infiltration of runoff from the South Ramp which is collected and directed to the south.

Overall, the measurements indicate that groundwater levels are strongly influenced by precipitation, while tidal influence is limited. However, little to no influence from pumping of nearby private wells was observed, which is consistent with the Conceptual Site Model of a very thick and highly transmissive aquifer where hydraulic response to minor residential pumping is limited. Graphs of the water level measurements versus precipitation and ocean tides are provided in Appendix A.

3.1.6 Soil and Groundwater Investigation

A focused soil and groundwater investigation was completed between 1 and 16 November 2022. This investigation was focused on obtaining sampling data upgradient and/or downgradient of known PFAS impacts in the Strojny Lot, Runway 15/33, Snow Removal Equipment (SRE) Building and Runway 6 Run-Up related to AFFF applications; possible off-site impacts to shallow soils along Monohansett Road (near the southwest corner of South Ramp at J); and at the northern end of the airfield near Sun Island Road. Deeper groundwater grab samples were also collected at selected locations to assess the vertical distribution of PFAS impacts. The investigation included the collection of soil samples at 33 locations and groundwater grab samples at 15 locations (Figure 3). The distribution of the sampling locations is tabulated below.

LOCATION	SOIL SAMPLING LOCATIONS	GW GRAB LOCATIONS
RUNWAY 15/33 (RW15)	8	5*
STROJNY LOT (SL)	13	1*
RUNWAY 6 RUN UP (RW6)	0	2*
SNOW REMOVAL EQUIPMENT BUILDING (SRE)	0	2*
MONOHANSETT ROAD NEAR SRJ (WL)	7	0
SUN ISLAND ROAD AREA (NOR)	5*	3*
AIRPORT PARKING LOT (PL)	0	2*

Note: *Some locations are outside of known AFFF release areas.

Soil sampling locations along Monohansett Road near the South Ramp at J were advanced via hand auger, and the locations at Runway 15/33, Strojny Lot, and Sun Island Road Area were advanced via Geoprobe drill rig using direct push technology. Each hand auger boring was advanced to 4 ft bgs and analytical soil samples were collected from 0–1 ft bgs, 1–2 ft bgs, and 3–4 ft bgs. The Geoprobe borings at Runway 15/33 and the Strojny Lot were advanced to 5 ft bgs and analytical soil samples were collected from 0–1 ft bgs, 1–2 ft bgs, and 3–4 ft bgs. At the Sun Island Area three borings were advanced to 5 ft bgs and analytical soil samples were collected from 0–1 ft bgs, 1–2 ft bgs, and 3–4 ft bgs. Additionally, two previous Sun Island Area shallow soil sampling locations (NOR-14 and NOR-15) were revisited and borings were advanced to the static water table (~50 ft bgs) to assess the full vertical distribution of PFAS. At these deeper locations analytical soil samples were collected from 4–6 ft bgs, 6–8 ft bgs, 8–10 ft bgs, 15–20 ft bgs, 20–30 ft bgs, 30–40 ft bgs, and 40–50 ft bgs. At each sampling location the shallowest sample was submitted for laboratory analysis, and the deeper samples were submitted to the laboratory on hold pending analysis of the shallow samples.

To reduce the chance of cross-contamination between samples, a fully decontaminated hand auger was used for every hand auger sample and all non-disposable Geoprobe tooling was decontaminated between each Geoprobe location. Soil samples were logged by WESTON personnel using the Unified Soil Classification System (USCS) and were screened with a photoionization detector (PID) in 1-ft intervals. Each analytical soil sample was collected into two laboratory-provided 4-ounce high-density polyethylene (HDPE) unpreserved sample containers. Immediately following collection, the samples were sealed in a new gallon zip seal bag and placed in an ice-filled cooler. The samples were submitted under standard COC protocols to Eurofins for analysis of PFAS via EPA Method 537 (isotope dilution). Decontamination methods are discussed in Subsection 3.1.7.

At each groundwater grab location, a stainless-steel mill-slot groundwater sampler was advanced 5–10 ft into the static groundwater table. The sampler was allowed to equilibrate for 5 minutes and then gauged with a water level meter. If little or no water was present in the sampler, it was advanced an additional 5 ft, and a secondary equilibration period was initiated. At some locations, the mill-slot sampler was advanced 10–20 ft into the water table due to soil conditions and/or required hydraulic head needed for groundwater to enter the sampler. At eight sampling locations

(RW6-69, RW6-72, RW6-73, RW15-6, RW15-10, RW15-27, RW15-28, RW15-29) groundwater grab samples were collected from deeper intervals to assess the vertical extent of PFAS impacts. The deeper groundwater grab samples were collected using the same methodology as for the shallow samples, except that the sampler was advanced approximately 45–50 ft below the water table.

After at least 5 ft of groundwater had infiltrated into the grab sampler, sampling commenced. A stainless-steel check valve and new HDPE tubing were used at each location. Each sampling point was developed for a minimum of 10 minutes to reduce turbidity. The samples were collected into laboratory-provided HDPE sample containers, sealed in new gallon zip-sealed freezer bags, placed into ice-filled coolers, and submitted under standard COC protocols to Eurofins for analysis of PFAS via EPA Method 537 (modified).

Between each well location and groundwater grab sample, all utilized tooling and stainless-steel check valves were decontaminated. The sample tubing was drained of all liquid and disposed as municipal solid waste. Decontamination methods are discussed in Subsection 3.1.7.

All purge water generated from grab groundwater sampling activities was discharged next to the location it came from except in areas at and downgradient of South Ramp at B and the Runway 6 Run Up. Purge water from these locations was containerized and treated through the Fuel Farm GAC system prior to discharge to the infiltration system.

3.1.7 Sitewide Groundwater Investigation

On 6 December 2022, sitewide synoptic groundwater gauging was performed at ACK. The gauging event included 17 ACK monitoring wells (7 permanent wells and 10 temporary wells) and four monitoring wells on the Leasehold Property. All wells were gauged to the closest 0.01 ft. All gauging work was performed within a 4-hour period. While performing gauging on the Leasehold Property, two wells, LB-1 and LB-2, were found to be dry. From the gauging measurements, it was concluded that debris had accumulated at the bottom of the wells and likely plugged the well screen; therefore, these wells were excluded from the sampling event.

From 6-14 December 2022, sitewide groundwater sampling was performed at ACK. This groundwater sampling event included the 17 ACK monitoring wells (7 permanent/previously

existing, 10 temporary) and the two Leasehold Property monitoring wells that were not plugged. All wells were sampled following the EPA Region 1 Low Stress (Low Flow) Purging and Sampling Procedure revised September 2017.

Static water levels were measured in each of the monitoring wells prior to beginning purging. Peristaltic pumps were used for wells in which the static groundwater level was shallower than 27 ft below the top of casing, and bladder pumps were used for all wells in which groundwater was deeper than 27 ft. Once purging was initiated, field parameters were monitored every 5 minutes using a multiparameter sonde and turbidity meter. Field parameters included pH, dissolved oxygen, temperature, specific conductance, oxygen-reduction potential, and turbidity. Sample collection was initiated once all field parameters stabilized over three consecutive readings. The samples were collected into laboratory-provided HDPE sample containers, sealed in new gallon zip-sealed freezer bags, placed into ice-filled coolers, and submitted under standard COC protocols to Eurofins for analysis of PFAS via EPA Method 537 modified.

3.1.8 Decontamination

Laboratory-provided PFAS-free deionized water was used for decontamination except when the volume of water required exceeded the supply capabilities of the laboratory. In such instances, water was procured from Nantucket Pure, who obtains their water from WWCO (municipal water company). Nantucket Pure further treats their municipal source water through an activated carbon, ion exchange resin, and reverse osmosis treatment train. Prior testing has confirmed that Nantucket Pure water is PFAS-free and, therefore, acceptable for use in decontaminating equipment. Additionally, quality control samples including equipment blanks are collected on equipment after decontamination to confirm the procedures are effective.

The decontamination procedure included a gross decontamination using RAM® cleaner followed by a triple rinse with PFAS-free water. Decontamination of drill rig tooling occurred between sample locations in an area designated for decontamination. Similarly, hand tools are decontaminated between sample intervals or between sample locations (if multiple hand tools were available for individual intervals). For groundwater sampling all non-disposable sampling equipment was decontaminated between locations. At the end of each day all spent

decontamination water was discharged into the ACK Fuel Farm truck pad containment for storage until it could be treated through the Fuel Farm treatment system.

3.2 ANALYTICAL RESULTS RECEIVED DURING THE REPORTING PERIOD

Analytical data were received during this reporting period for sampling events completed before 31 December 2022. The drinking water results are presented in Tables 1 and 2 and discussed below. Soil and groundwater sampling results are provided in Tables 3 and 4. Groundwater elevation measurements from the synoptic gauging round are provided in Table 5. Drinking water and groundwater sampling locations and groundwater elevation contours are shown on Figure 3, soil sampling locations and analytical results are shown on Figures 4 through 9. The laboratory analytical data packages are provided in Appendix B.

3.2.1 PFAS Analytical Results - Madequecham Valley Road

Laboratory analytical results from the two drinking water sampling events conducted in August and November 2022 were received during the reporting period (see Table 1).

Most samples collected during this reporting period either had no PFAS6 concentrations detected above laboratory reporting limits or had concentrations less than 20 ng/L. However, at Property BI, the sample collected in November 2022 had a PFAS6 concentration that exceeded 20 ng/L for the first time at this home. Bottled water deliveries were not restarted because the residence had been winterized by the time the result was received. Property BI will be connected to the Madequecham Valley Road municipal water line in spring 2023, before the home is reoccupied for the summer. If the water line connection cannot be made prior to residents returning, then bottled water will be provided until the connection is completed.

In the near term, the well water from the homes on MVR not connected to the water line will continue to be sampled on a quarterly basis. The analytical results for the MVR area are provided in Table 1.

3.2.2 PFAS Analytical Results – West Side and Nobadeer Way Areas

No West Side residences were sampled during this reporting period because all impacted homes on the West Side have been connected to the municipal water line and the impacted wells are no

longer in service. Only one residence in the Nobadeer Way Area (IP) was sampled during the reporting period. Residence IP was the final remaining unsampled residence in the Nobadeer Way Area. This residence had not been sampled previously because the owner had declined to sign an access agreement. Access to the property was granted and samples were collected in September 2022.

An initial analytical result of the September 2022 event had a total detectable PFAS6 concentration of 18.3 ng/L. Due to this result being within 90% of the GW-1 standard, the residence was resampled in October 2022. The sample collected in October had a total PFAS6 concentration of 21.9 ng/L. Because the second sample exceeded the GW-1 standard, property IP was offered a connection to the municipal water line, but the owner has declined it. This home was already receiving bottled water due to PFAS exceedances in adjacent supply wells.

The analytical data for the Nobadeer Way Area can be found in Table 2.

3.2.3 PFAS Analytical Results – Soil and Groundwater Investigations

During the reporting period, groundwater sampling was completed in the vicinity of nine AFFF application areas to further assess potential impacts from historical AFFF applications. Additional soil and/or groundwater grab sampling was completed in and outside five AFFF application areas to evaluate the presence of impacted soils and characterize the horizontal and vertical extents of the groundwater plume(s). Investigations during the reporting period were conducted at the following locations:

- Runway 15/33
- Strojny Lot
- Runway 6 Run-Up
- Snow Removal Equipment Building
- Monohansett Road near South Ramp at J (off-Airport location that receives surface runoff from the South Ramp)
- Sun Island Road Area (not a known AFFF release area)

Laboratory analytical data packages can be found in Appendix B. Geologic logs for each of the soil borings are provided in Appendix C. Soil sample results are presented on Table 3, and groundwater results on Table 4.

Much of ACK is classified as a Non-Potential Drinking Water Source Area; therefore, most soil samples collected on airport property are compared to the S-1/GW-3 standards. Soil samples collected in the northeastern portion of the airfield where the Zone II area for the WWCO water supply wells extends onto the Airport are subject to S-1/GW-1 criteria. The S-1/GW-1 standards also apply to the soil samples collected near Monohansett Road (WL-14 through WL-19) because these locations are outside of ACK property. As the Phase II CSA continues, the applicable soil standards required by the MCP based on exposure potential will be further evaluated.

3.2.3.1 Soil Results

- Multiple PFAS6 S-1/GW-1 exceedances were noted in the samples collected along Monohansett Road (located west of the South Ramp at J), including WL-14, WL-15, WL-16, WL-17, and WL-18 (Figure 6).
  - At location WL-14, PFHpA, PFOA, PFNA, and PFHxS were detected above criteria in the 0–1 ft bgs sample. PFOA and PFHxS were detected above criteria in the 1–2 ft bgs sample. No exceedances were detected in the 3–4 ft bgs sample.
  - At location WL-15, PFHpA, PFOA, and PFNA, were detected above criteria in the 0–1 ft bgs sample. PFHpA and PFOA were detected above criteria in the 1–2 ft bgs sample. No exceedances were detected in the 3–4 ft bgs sample.
  - At location WL-16, PFNA was detected above criteria in the 0–1 ft bgs sample. PFHpA, PFOA, PFNA, and PFOS were detected above criteria in the 1–2 ft bgs sample. No exceedances were detected in the 3–4 ft bgs sample.
  - At location WL-17, PFHpA, PFOA, PFNA, and PFOS were detected above criteria in the 0–1 ft bgs sample. PFHpA, PFOA, and PFHxS were detected above criteria in the 1–2 ft bgs sample. No exceedances were detected in the 3-4 ft bgs sample.
  - At location WL-18, PFDA was detected above criteria in the 0–1 ft bgs sample. PFNA was detected above criteria in the 1-2 ft bgs sample. No exceedances were detected in the 3–4 ft bgs sample.
  - The results of this soil sampling round have bounded the northern and southern extent of off-site soil impacts in this location, as well as the depth of contamination (top 0–3 ft), but the western extent remains undefined and additional sampling will be needed.
- No PFAS6 S-1/GW-3 exceedances were identified in the soil samples collected at the Strojny Lot (Figure 7), although PFAS were present all borings.
- Multiple PFAS6 S-1/GW-1 exceedances were noted in the samples collected in the Sun Island Road Area, including NOR-14, NOR-15, NOR-18, and NOR-19 (Figure 7). This is within the WWCO wells Zone II area.
  - At location NOR-14, PFHpA was detected above criteria in the following samples: 4–6 ft bgs, 8–10 ft bgs, and 15–20 ft bgs. PFHpA was detected below criteria in the 6-8

ft bgs sample and was not detected in the 20–30 ft bgs, 30–40 ft bgs and 40–50 ft bgs samples.

- At location NOR-15, PFHpA was detected above criteria in the following samples: 4–6 ft bgs, 6–8 ft bgs, 15–20 ft bgs, and 20–30 ft bgs. PFHpA was detected below criteria in the 8–10 ft bgs, 30–40 ft bgs and 40–50 ft bgs samples and was not detected in the 50–55 ft bgs sample.
- At location NOR-18, PFHpA, PFOA, PFNA, and PFDA were detected above criteria in the 0–1 ft bgs sample. PFHpA was detected above criteria in the 1–2 ft bgs sample. No exceedances were detected in the 3–4 ft bgs sample.
- At location NOR-19, PFNA was detected above criteria in the 0–1 ft bgs sample. No exceedances were detected in the 1–2 ft bgs and 3–4 ft bgs samples.

- No PFAS6 S-1/GW-3 exceedances were identified in the soil samples collected at the Runway 15/33 Mid Area (Figure 9), although PFAS were present all borings.

3.2.3.2 Groundwater Results

- Multiple PFAS6 GW-1 exceedances were identified in the samples collected east of the Runway 6 Run Up (Figure 5A).
  - PFAS6 was detected exceeding 10x the GW-1 criteria in the shallow groundwater grab sample collected from RW6-72, the deeper groundwater grab samples collected at RW6-69 and RW6-73, and the groundwater sample collected from monitoring well TACK-8.
  - PFAS6 was detected exceeding the GW-1 criteria in the deep groundwater grab sample collected from RW6-72.
- Multiple PFAS6 GW-1 exceedances were identified in the sample collected at the midpoint of Runway 15/33.
  - PFAS6 were detected exceeding 10x the GW-1 criteria at the deep sample collected from RW15-6, the shallow sample collected from RW15-30 and the groundwater sample collected from TACK-3.
  - PFAS6 were detected exceeding the GW-1 criteria at the deep sample collected from RW15-29.
  - PFAS6 were not detected in the groundwater grab sample collected at RW15-31.
- At the eastern end of Runway 15/33 and along Taxiway C (Figure 5C), PFAS6 were detected at concentrations exceeding the GW-1 standard in the deep samples from RW15-10, RW15-27 and RW15-28.
  - PFAS6 were detected below GW-1 criteria in the sample collected from monitoring well ACK-09.
  - PFAS6 was not detected in the shallow groundwater grab sample collected at RW15-28 and the groundwater samples collected from monitoring wells TACK-5 and TACK-6.

- At the Strojny Lot (Figure 5C) PFAS6 were detected exceeding 10x the GW-1 criteria in the shallow sample collected from SL-21.
  - One sample was collected from a supply well on the Island Energy Services (IES) facility located north of the Strojny Lot. PFAS6 was detected below the GW-1 criteria in the sample from this well. This well is designated for non-drinking water uses (washing vehicles, washing hands, etc.).
- At the SRE Building PFAS6 was detected exceeding the GW-1 in the sample collected from SRE-20. PFAS6 were not detected in the sample collected at SRE-19.
- At the Runway 24 Approach (Figure 5B) PFAS6 were detected below the GW-1 in the groundwater sample collected from TACK-1.
- At the Fuel Farm (Figure 5A) PFAS6 were detected exceeding 10x the GW-1 criteria in the sample collected from ACK-10.
- At the Sand Pit (Figures 5A and 5C) PFAS6 was not detected in the sample collected from monitoring well TACK-7.
- PFAS6 were detected exceeding the GW-1 criteria at monitoring well TACK-9. TACK-9 is downgradient of the South Ramp at B and Fuel Farm; and cross gradient of the South Ramp at J (Figure 5A).
- Within the Nantucket Memorial Airport parking lot (Figure 5B), PFAS6 were detected above the GW-1 criteria at PL-01 and PL-02.
- At the area north of the Runway 24 approach (Sun Island Road Area) (Figure 5B), PFAS6 were detected at concentrations exceeding the GW-1 standard at NOR-24. PFAS6 were detected below the GW-1 standard at NOR-22 and NOR-23. PFAS6 were not detected at NOR-25 and in the groundwater sample collected from monitoring well TACK-2.
- At the Leasehold Property (Figure 5B), combined PFAS6 were detected above the GW-1 criteria in the samples collected from monitoring wells LB-03 and LB-04. The sample collected from monitoring well ACK-11, located downgradient of the Leasehold Property, contained PFAS6 concentrations exceeding the GW-1 criteria.
- At Statue Park (Figure 5B), PFAS6 were detected above the GW-1 criteria in the samples collected from monitoring wells ACK-14 and ACK-15.

3.2.3.3 Soil and Groundwater Results Summary

At this time, PFAS6 have been confirmed to be present in soil at all nine known AFFF application areas. Because the majority of the Airport falls within a Non-Potential Drinking Water Source Area, these low-level detections fall below the applicable Method 1 S-1/GW-3 criteria except for a limited area of the South Ramp at B. PFAS has not been detected above the S-1/GW-3 standards at the other AFFF application areas on airport property. However, in areas of the Airport within

the Zone II for the WWCO supply wells, the Method 1 S-1/GW-1 soil standards apply and the low concentrations in those areas represent an exceedance. In the northern extent of the airfield (Sun Island Road Area), PFAS6 has been confirmed present in soil exceeding the applicable Method S-1/GW-1 criteria. These exceedances were identified in six borings, and at two locations, PFAS6 exceedances were identified at depths exceeding 15 ft bgs. Along Monohansett Road PFAS6 has been confirmed present in soils exceeding S-1/GW-1 criteria. Of the six borings which were advanced during this reporting period, five contained PFAS6 concentrations above the S-1/GW-1 from the surface to 2 ft bgs. As mentioned above, additional sampling is required in the Monohansett Road area to define the western extent of those impacts. Impacts there are shallow (top 3 ft) and are likely related to the infiltration of impacted stormwater running off from the South Ramp.

Groundwater impacts have been documented across airport property and multiple PFAS plumes have been identified (Figure 4). Plumes containing concentrations exceeding the GW-1 criteria have been correlated with apparent sources at the following AFFF application areas: South Ramp at B; Fuel Farm; Strojny Lot; and Runway 15/33 Mid. The South Ramp at J and Runway 6 Runup areas both fall within the plume associated with the Fuel Farm and South Ramp at B; so, it is difficult to assess their contribution to groundwater impacts. PFAS6 was detected above 10x the GW-1 criteria in a groundwater grab sample upgradient of the Strojny Lot indicating that there may be an additional unidentified source area north of that area. Deeper groundwater samples collected during this reporting period show evidence of PFAS vertical migration occurring along with horizontal migration, which can be seen from the deeper samples collected at RW6-69, RW15-06, and RW15-28. Of the nine applications areas, the Sand Pit, SRE Building, and Runway 24 Approach do not appear to be significant sources of PFAS in soil or groundwater. Groundwater impacts have been identified in the Sun Island Road Area, west of Runway 24 Approach that is not associated with any known AFFF application, use, or storage area.

Based on the distribution of PFAS and groundwater flow patterns, groundwater impacts west of the Airport in the vicinity of Nobadeer Way and Evergreen Way appear to be related to an off-site source of PFAS located north of Old South Road, although contribution from the Leasehold Property cannot be ruled out at this point.

Based on current data, it appears that the most significant sources of groundwater impacts are originating at South Ramp at B and Fuel Farm application areas and at the Strojny Lot/Runway 15/33 Mid application areas. Both of these plumes have concentrations greater than 10x the GW-1 standards and are relatively well defined in the horizontal extent. Additional horizontal delineation is needed upgradient of the plume originating at the Strojny Lot. Additional vertical delineation is required for both plumes due to elevated PFAS concentrations being identified in some deeper groundwater grab samples.

The plume located at the far northern end of the Airport near Sun Island Road appears to be highly localized; however, additional horizontal and vertical delineation is needed.

Groundwater impacts near and downgradient of the Fuel Farm suggest that historical discharge of stormwater from the two containment structures into the infiltration system resulted in PFAS6 contamination in groundwater. The Fuel Farm, South Ramp at B, South Ramp at J, Runway 15/33 Mid, and Strojny Lot appear to be potentially significant contributors to the PFAS6 impacts observed in groundwater at and downgradient of ACK. Further, PFAS6 have also been detected at concentrations exceeding applicable criteria in one off-site location (Leasehold Property) not associated with AFFF application activities. Additional investigations are being conducted as part of the Phase II Comprehensive Site Assessment to confirm the nature and extent of PFAS6 in soil and groundwater at and near ACK.

Cross-sections have been prepared for five transects across the Site including three parallel to groundwater flow (A-A', B-B', and E-E') and two perpendicular (C-C' and D-D') to groundwater flow and are presented in Appendix D. The plumes from each identified source area appear to be long, narrow, and deep and ultimately discharge to the Atlantic Ocean south of the Airport.

Based on existing analytical and groundwater flow data, including samples collected as part of the MassDEP Private Wells PFAS Sampling Program[2] conducted by MassDEP and the University of Massachusetts Amherst, a plume originating northwest of the Disposal Site appears to correlate with the PFAS6 exceedance in Statue Park and at least some of the Nobadeer Way Area drinking water results. This plume then merges with the plumes originating on the Disposal Site at South

[2] https://www.mass.gov/doc/massdep-pfas-sampling-program-update/download

Ramp at B, Fuel Farm, South Ramp at J, and Runway 6 Run Up. Ultimately, the plume follows groundwater flow until reaching the wells on the western end of MVR and ultimately discharges to the Atlantic Ocean.

3.3 OTHER ACTIVITIES

3.3.1 Bottled Water Orders

Within the reporting period, no additional residences required bottled water delivery. As of 31 December 2022, eight residences were still receiving bottled water unless declined by the property owner. This includes six residences on the West Side and two residences in the Nobadeer Way Area (Table 6).

Bottled water is still being provided to some residents with detectable concentrations of PFAS6 in their wells who do not have the ability to connect to a municipal water line. Once the Town extends the water line to these remaining homes on the West Side (estimated to be sometime in 2024), the Airport will terminate all remaining bottled water deliveries. In the interim, the Airport Commission is actively managing a policy to allow for limited continuation of bottled water service to a specific subset of residents, which it will review according to receipt of ongoing study data and Town water line extension.

3.4 NOTIFICATION TO RESIDENTS AND ACCESS AGREEMENTS

Samples have been collected from all residences abutting the Airport to the west and in the Nobadeer Way Area. No additional step-outs are required. All known or suspected drinking water impacts have been investigated and mitigated through bottled water or providing a connection to a municipal water line.

3.5 SIGNIFICANT NEW SITE INFORMATION

Sampling of homes along MVR that were not connected to the municipal water line continued during this reporting period. Results from residence BI were observed to increase above the Method 1 GW-1 standard for PFAS of 20 ng/L. By the time the results were received from the laboratory, that home had been closed for the season and winterized. The residents have been

contacted and have agreed to connect to the municipal water line. The water line connection will be installed in the spring when the home is reopened for the season.

3.6 MANAGEMENT OF REMEDIATION WASTE

All purge water generated from groundwater sampling activities was discharged in the vicinity of the sampling location where it originated except in areas at and downgradient of South Ramp at B, South Ramp at J, Runway 6 Run Up, Strojny Lot, and Runway 15/33 Mid where higher PFAS concentrations were anticipated. Purge water from these locations was containerized and treated through the Fuel Farm GAC system prior to discharge to the infiltration system. Soil cuttings generated during drilling activities were replaced back into the boreholes from which they originated. All decontamination water was poured into the fuel farm truck pad or drummed and staged on-site (inside the airport fence near Gate 35) for subsequent treatment through the Fuel Farm GAC system by Airport personnel.

Spent treatment media from the Fuel Farm GAC system extracted from the vessels in November 2022 was contained in 55-gallon drums for off-site disposal by ACK's waste disposal subcontractor (Clean Harbors). Media from the lead and lag vessels were segregated into separate drums. These drums, along with the 55-gallon drums containing the treatment media from the dismantled POET systems, are currently staged at the Airport awaiting off-site disposal. All other associated materials were disposed of as municipal waste.

3.7 CONCLUSIONS AND LICENSED SITE PROFESSIONAL OPINION

This IRA is being conducted in response to the detection of PFAS6 in groundwater and drinking water representing an imminent hazard (IH) condition at a Critical Exposure Pathway. As discussed above, construction of the municipal water service to the impacted residences on Monohansett Road, Skyline Drive, and MVR was completed in May 2022. Residences with total PFAS6 concentrations above 20 ng/L have been connected to a municipal water source with the exception of residence BI on Madequecham Valley Road and IP in the Nobadeer Way Area. Presently both residences are closed for the offseason, therefore municipal water line connections are planned for spring 2023 when the residences reopen.

Bottled water is still being provided to some residents with concentrations of PFAS6 in their wells below 20 ng/L who do not have the ability to connect to a municipal water line at the discretion of

the Airport in an effort of good faith. Once the Town extends the water line to these remaining homes on the West Side (estimated to be sometime in 2024), the Airport will terminate all remaining bottled water deliveries. In the interim, the Airport Commission is actively implementing a policy to allow for limited continuation of bottled water service to a specific subset of residents, which it will review according to receipt of ongoing study data and Town water line extension.

PFAS6 were detected above applicable soil criteria in soils along Monohansett Road located West of the South Ramp at J and in the Sun Island Area. The highest concentrations of PFAS6 continue to be detected in soil and/or groundwater at the South Ramp at B, South Ramp at J, Runway 6 Run Up, Runway 15/33 Mid, and Strojny Lot areas. Additional investigations are being implemented as part of a Comprehensive Site Assessment to assess the nature and extent of PFAS6 at the Disposal Site. These investigative activities will be conducted as part of ongoing Comprehensive Response Actions.

Under the Licensed Site Professional of Record (James J. Soukup, #5888), this IRA Plan was prepared in accordance with 310 CMR 40.0411, 40.0414, and 40.0425. His seal and signature are included on the Immediate Response Action Transmittal Form BWSC-105 submitted concurrently with this IRA Plan via the eDEP online filing system.

SECTION 4

REFERENCES

4 REFERENCES

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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

SOURCE:
1. MassGIS Data: USGS Color Ortho Imagery 2013/2014)

LEGEND

- SAMPLED
- SAMPLED, AWAITING RESULTS
- AWAITING ACCESS
- MONITORING WELL
- PROPERTY SUPPLIED BY TOWN WATER
- KNOWN AFFF APPLICATION AREAS
- GATE
- ESTIMATED DISPOSAL SITE BOUNDARY
- SITE FENCE
- A TAXIWAY
- RWY 06 RUNWAY
- PROPERTY BOUNDARY

GRAPHIC SCALE
900 450 0 450 900
APPROXIMATE SCALE IN FEET

SITE PLAN WITH DISPOSAL SITE BOUNDARIES

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

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
DCH	AUG 2022			15295.007.001
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
MRK	AUG 2022	AS SHOWN		2

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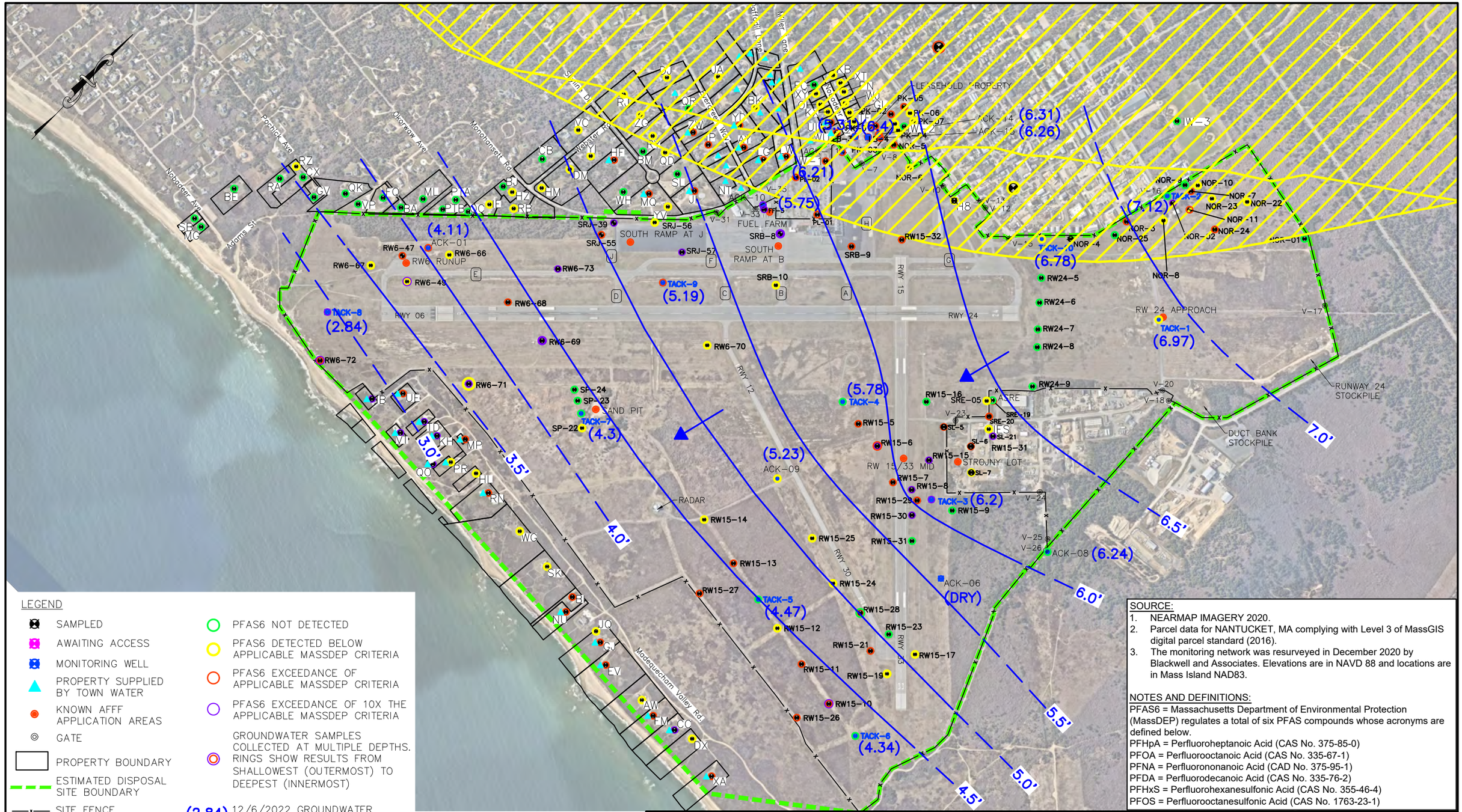

LEGEND

- SAMPLED
- AWAITING ACCESS
- MONITORING WELL
- PROPERTY SUPPLIED BY TOWN WATER
- KNOWN AFFF APPLICATION AREAS
- GATE
- PROPERTY BOUNDARY
- ESTIMATED DISPOSAL SITE BOUNDARY
- SITE FENCE
- TAXIWAY
- RUNWAY
- GROUNDWATER GRAB SAMPLE LOCATION
- COMBINED GW/SOIL SAMPLE LOCATION
- PFAS6 NOT DETECTED
- PFAS6 DETECTED BELOW APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF 10X THE APPLICABLE MASSDEP CRITERIA
- GROUNDWATER SAMPLES COLLECTED AT MULTIPLE DEPTHS. RINGS SHOW RESULTS FROM SHALLOWEST (OUTERMOST) TO DEEPEST (INNERMOST)
- (2.84) 12/6/2022 GROUNDWATER ELEVATION (IN FEET)
- GROUNDWATER FLOW DIRECTION
- 6' GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- ZONE II WELLHEAD PROTECTION AREA

GRAPHIC SCALE

900 450 0 450 900

APPROXIMATE SCALE IN FEET

SOURCE:

1. NEARMAP IMAGERY 2020.
2. Parcel data for NANTUCKET, MA complying with Level 3 of MassGIS digital parcel standard (2016).
3. The monitoring network was resurveyed in December 2020 by Blackwell and Associates. Elevations are in NAVD 88 and locations are in Mass Island NAD83.

NOTES AND DEFINITIONS:

PFAS6 = Massachusetts Department of Environmental Protection (MassDEP) regulates a total of six PFAS compounds whose acronyms are defined below.
PFHpA = Perfluoroheptanoic Acid (CAS No. 375-85-0)
PFOA = Perfluorooctanoic Acid (CAS No. 335-67-1)
PFNA = Perfluorononanoic Acid (CAD No. 375-95-1)
PFDA = Perfluorodecanoic Acid (CAS No. 335-76-2)
PFHxS = Perfluorohexanesulfonic Acid (CAS No. 355-46-4)
PFOS = Perfluorooctanesulfonic Acid (CAS No. 1763-23-1)

SITE MAP WITH GROUNDWATER CONTOURS

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

WESTON SOLUTIONS

CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
DCH	AUG 2022			15295.007.001
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
MRK	AUG 2022	AS SHOWN		3

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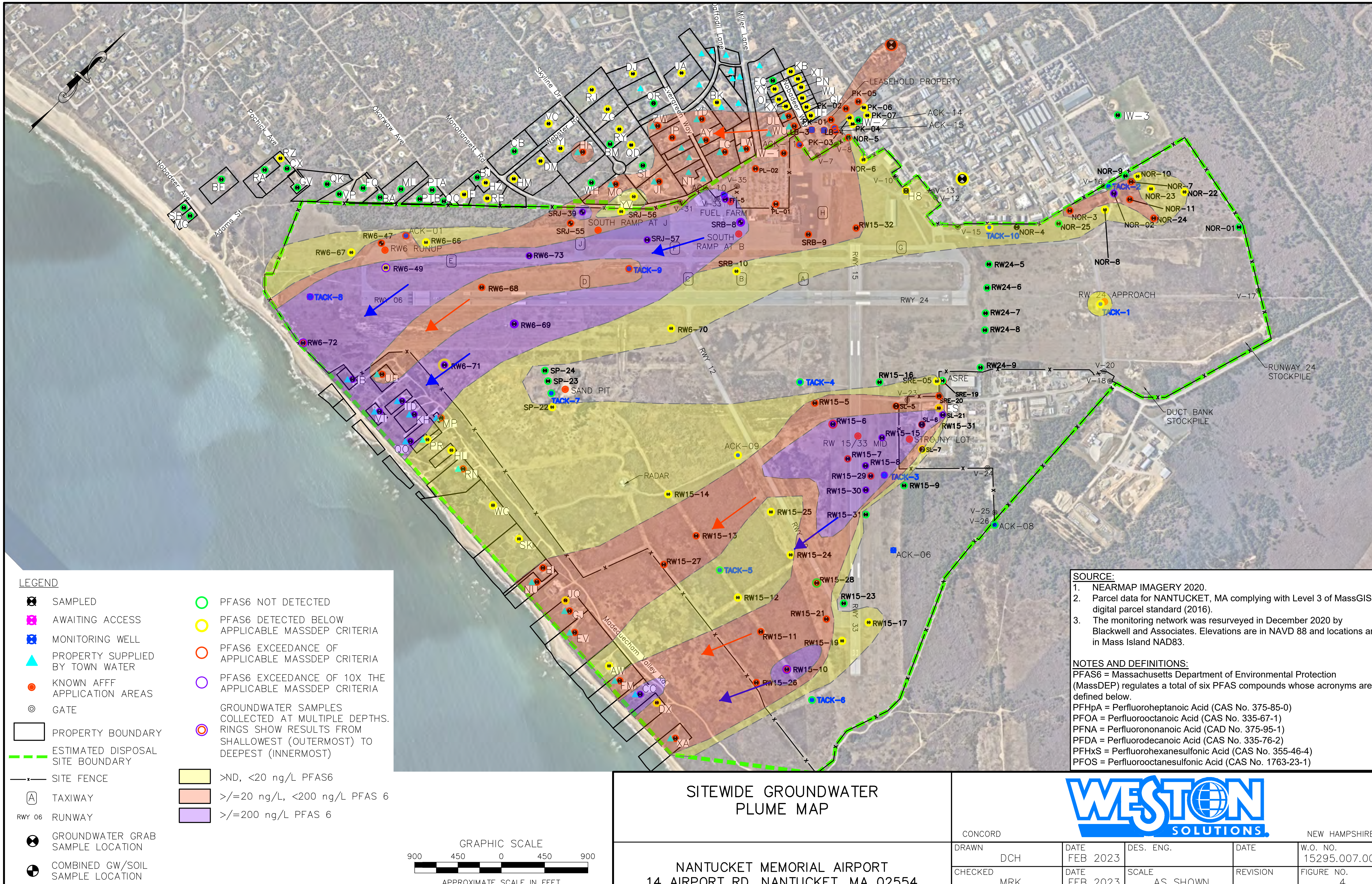

SOURCE:

1. NEARMAP IMAGERY 2020.
2. Parcel data for NANTUCKET, MA complying with Level 3 of MassGIS digital parcel standard (2016).
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PFHxS = Perfluorohexanesulfonic Acid (CAS No. 355-46-4)
PFOS = Perfluorooctanesulfonic Acid (CAS No. 1763-23-1)

SITEWIDE GROUNDWATER PLUME MAP

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
DCH	FEB 2023			15295.007.001
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
MRK	FEB 2023	AS SHOWN		4

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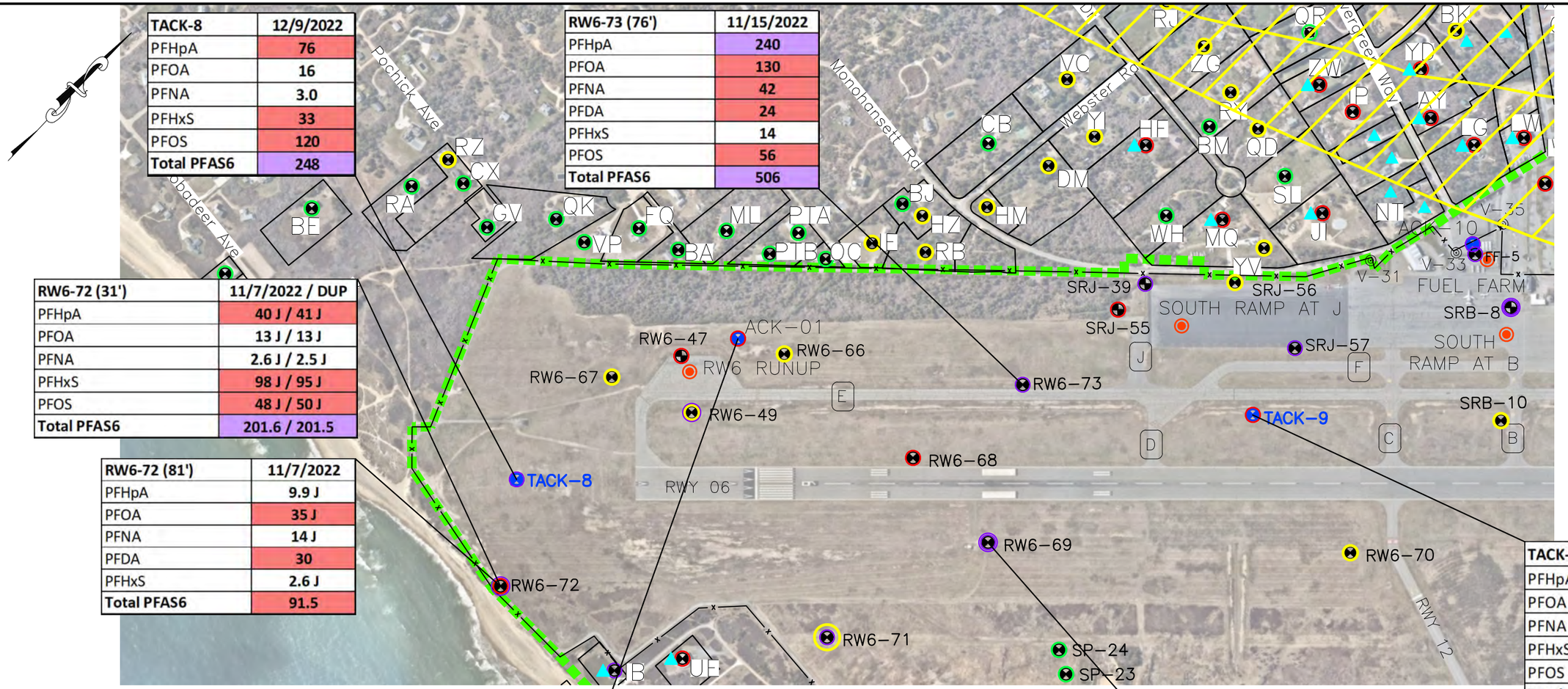

TACK-8	12/9/2022
PFHpA	76
PFOA	16
PFNA	3.0
PFHxS	33
PFOS	120
Total PFAS6	248

RW6-73 (76')	11/15/2022
PFHpA	240
PFOA	130
PFNA	42
PFDA	24
PFHxS	14
PFOS	56
Total PFAS6	506

RW6-72 (31')	11/7/2022 / DUP
PFHpA	40 J / 41 J
PFOA	13 J / 13 J
PFNA	2.6 J / 2.5 J
PFHxS	98 J / 95 J
PFOS	48 J / 50 J
Total PFAS6	201.6 / 201.5

RW6-72 (81')	11/7/2022
PFHpA	9.9 J
PFOA	35 J
PFNA	14 J
PFDA	30
PFHxS	2.6 J
Total PFAS6	91.5

ACK-01	12/7/2022
PFHxS	20
Total PFAS6	20

TACK-9	12/9/2022
PFHpA	3.1
PFOA	6.0
PFNA	7.7
PFHxS	2.3
PFOS	18
Total PFAS6	37.1

RW6-69 (91')	11/8/2022
PFHpA	110 J
PFOA	180 J
PFNA	40 J
PFDA	7.7
PFHxS	1,400 J
PFOS	540 J
Total PFAS6	2,277.7

MassDEP GW-1 Criteria	PPT or ng/L
Perfluoroheptanoic Acid (PFHpA)	Individual or Total PFAS 6 20 PPT
Perfluorooctanoic Acid (PFOA)	
Perfluorononanoic Acid (PFNA)	
Perfluorodecanoic Acid (PFDA)	
Perfluorohexanesulfonic Acid (PFHxS)	
Perfluorooctanesulfonic Acid (PFOS)	

LEGEND

- SAMPLED
- AWAITING ACCESS
- MONITORING WELL
- PROPERTY SUPPLIED BY TOWN WATER
- KNOWN AFFF APPLICATION AREAS
- GATE
- PROPERTY BOUNDARY
- ESTIMATED DISPOSAL SITE BOUNDARY
- SITE FENCE
- TAXIWAY
- RWY 06 RUNWAY
- GROUNDWATER GRAB SAMPLE LOCATION
- COMBINED GW/SOIL SAMPLE LOCATION
- PFAS6 NOT DETECTED
- PFAS6 DETECTED BELOW APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF 10X THE APPLICABLE MASSDEP CRITERIA
- GROUNDWATER SAMPLES COLLECTED AT MULTIPLE DEPTHS. RINGS SHOW RESULTS FROM SHALLOWEST (OUTERMOST) TO DEEPEST (INNERMOST)
- ZONE II WELLHEAD PROTECTION AREA

GRAPHIC SCALE

500 250 0 250 500

APPROXIMATE SCALE IN FEET

SOURCE:
1. NEARMAP IMAGERY 2020.
2. Parcel data for NANTUCKET, MA complying with Level 3 of MassGIS digital parcel standard (2016).
3. The monitoring network was resurveyed in December 2020 by Blackwell and Associates. Elevations are in NAVD 88 and locations are in Mass Island NAD83.

NOTES AND DEFINITIONS:
38' = INDICATES TUBING INTAKE DEPTH IN FEET BELOW GROUND SURFACE
2.9 / 3.0 = INDICATES ANALYTICAL RESULTS FROM PRIMARY AND DUPLICATE SAMPLES
B = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
J = RESULT IS ESTIMATED.
BOLD INDICATES DETECTED RESULT.
"PFAS6" REFERS TO THE TOTAL COMBINED CONCENTRATION OF THE SIX REGULATED PFAS COMPOUNDS. NO RESULTS BOX IS SHOWN FOR SAMPLES IN WHICH NO PFAS6 WERE DETECTED.

GROUNDWATER SAMPLING RESULTS NOVEMBER–DECEMBER 2022

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
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MRK	FEB 2023	AS SHOWN		5A

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ACK-11	12/13/2022
PFHpA	3.1
PFOA	6.7
PFHxS	35
PFOS	46
Total PFAS6	90.8

PL-02 (56')	11/8/2022
PFHpA	13 J
PFOA	48 J
PFNA	15 J
PFDA	31
PFHxS	40 J
PFOS	30 J
Total PFAS6	177

ACK-10	12/13/2022
PFHpA	430 J
PFOA	160
PFNA	140
PFDA	12
PFHxS	37 J
PFOS	72
Total PFAS6	851

PL-01 (56')	11/8/2022
PFHpA	8.7 J
PFOA	27 J
PFNA	9.5 J
PFDA	17
PFHxS	48 J
PFOS	33 J
Total PFAS6	143.2

ACK-14	12/6/2022 / DUP
PFHpA	9.4 / 9.4
PFOA	21 / 21
PFNA	2.6 / 2.5
PFHxS	32 / 29
PFOS	22 / 21
Total PFAS6	87 / 82.9

ACK-15	12/12/2022
PFHpA	6.1
PFOA	8.4
PFNA	3.5
PFHxS	1.8
PFOS	19
Total PFAS6	38.8

NOR-23 (76')	11/2/2022
PFOA	2.5
PFDA	1.9
Total PFAS6	4.4

NOR-22 (81')	11/2/2022
PFOA	2.8
Total PFAS6	2.8

NOR-24 (71')	11/3/2022
PFHpA	4.4
PFOA	18
PFNA	5.1
PFDA	11
Total PFAS6	38.5

LB-3	12/12/2022
PFHpA	4.1
PFOA	9.0
PFNA	1.9
PFHxS	7.1
PFOS	17
Total PFAS6	39.1

LB-4	12/12/2022
PFHpA	7.7
PFOA	11
PFNA	2.5
PFHxS	9.7
PFOS	17
Total PFAS6	47.9

RW15-32 (51')	11/9/2022
PFHpA	3.0
PFOA	2.3
PFHxS	14
PFOS	19
Total PFAS6	38.3

TACK-10	12/7/2022
PFHpA	3.4
PFOA	3.3
PFHxS	2.6
PFOS	2.3
Total PFAS6	11.6

TACK-1	12/8/2022
PFHxS	4.0
Total PFAS6	4.0

LEGEND

- SAMPLED
- AWAITING ACCESS
- MONITORING WELL
- PROPERTY SUPPLIED BY TOWN WATER
- KNOWN AFFF APPLICATION AREAS
- GATE
- PROPERTY BOUNDARY
- ESTIMATED DISPOSAL SITE BOUNDARY
- SITE FENCE
- A TAXIWAY
- RWY 06 RUNWAY
- GROUNDWATER GRAB SAMPLE LOCATION
- COMBINED GW/SOIL SAMPLE LOCATION
- PFAS6 NOT DETECTED
- PFAS6 DETECTED BELOW APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF 10X THE APPLICABLE MASSDEP CRITERIA
- ZONE II WELLHEAD PROTECTION AREA

GRAPHIC SCALE

500 250 0 250 500

APPROXIMATE SCALE IN FEET

MassDEP GW-1 Criteria	PPT or ng/L
Perfluoroheptanoic Acid (PFHpA)	Individual or Total PFAS 6 20 PPT
Perfluorooctanoic Acid (PFOA)	
Perfluorononanoic Acid (PFNA)	
Perfluorodecanoic Acid (PFDA)	
Perfluorohexanesulfonic Acid (PFHxS)	
Perfluorooctanesulfonic Acid (PFOS)	

SOURCE:

1. NEARMAP IMAGERY 2020.
2. Parcel data for NANTUCKET, MA complying with Level 3 of MassGIS digital parcel standard (2016).
3. The monitoring network was resurveyed in December 2020 by Blackwell and Associates. Elevations are in NAVD 88 and locations are in Mass Island NAD83.

NOTES AND DEFINITIONS:

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B = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
J = RESULT IS ESTIMATED.
BOLD INDICATES DETECTED RESULT.
"PFAS6" REFERS TO THE TOTAL COMBINED CONCENTRATION OF THE SIX REGULATED PFAS COMPOUNDS. NO RESULTS BOX IS SHOWN FOR SAMPLES IN WHICH NO PFAS6 WERE DETECTED.

GROUNDWATER SAMPLING RESULTS NOVEMBER–DECEMBER 2022

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
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MRK	FEB 2023	AS SHOWN		5B

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RW15-06 (91')	11/10/2022
PFHpA	120
PFOA	84
Total PFAS6	204

ACK-09	12/13/2022
PFHxS	7.4
PFOS	5.2
Total PFAS6	12.6

RW15-29 (91')	11/9/2022
PFHpA	5.9
PFOA	14
PFNA	3.0
PFDA	6.5
PFHxS	64
PFOS	6.1
Total PFAS6	99.5

RW15-30 (46')	11/9/2022
PFHpA	100
PFOA	25
PFNA	1.9
PFHxS	590
PFOS	670
Total PFAS6	1,386.9

RW15-27 (81')	11/7/2022
PFHpA	11 J
PFOA	39 J
PFNA	14 J
PFDA	28
PFHxS	50 J
PFOS	8.7 J
Total PFAS6	150.7

RW15-28 (96')	11/10/2022
PFHpA	2.1
PFOA	11
PFNA	4.1
PFDA	11
Total PFAS6	28.2

SRE-20 (51')	11/3/2022
PFHpA	7.7
PFOA	7.9
PFHxS	5.2
PFOS	6.4
Total PFAS6	27.2

IES	11/16/2022 / DUP
PFHxS	9.5 / 9.4
Total PFAS6	9.5 / 9.4

SL-21 (51')	11/8/2022
PFHpA	110 J
PFOA	48 J
PFNA	1.8 J
PFHxS	200 J
PFOS	350 J
Total PFAS6	709.8

TACK-3	12/9/2022
PFHpA	91
PFOA	57
PFHxS	2,400
PFOS	290
Total PFAS6	2,838

RW15-10 (91')	11/4/2022
PFOA	2.0
PFHxS	5.7
PFOS	32
Total PFAS6	39.7

MassDEP GW-1 Criteria	PPT or ng/L
Perfluoroheptanoic Acid (PFHpA)	Individual or Total PFAS 6 20 PPT
Perfluorooctanoic Acid (PFOA)	
Perfluorononanoic Acid (PFNA)	
Perfluorodecanoic Acid (PFDA)	
Perfluorohexanesulfonic Acid (PFHxS)	
Perfluorooctanesulfonic Acid (PFOS)	

LEGEND

- SAMPLED
- AWAITING ACCESS
- MONITORING WELL
- PROPERTY SUPPLIED BY TOWN WATER
- KNOWN AFFF APPLICATION AREAS
- GATE
- PROPERTY BOUNDARY
- ESTIMATED DISPOSAL SITE BOUNDARY
- SITE FENCE
- TAXIWAY
- RWY 06 RUNWAY
- GROUNDWATER GRAB SAMPLE LOCATION
- COMBINED GW/SOIL SAMPLE LOCATION
- PFAS6 NOT DETECTED
- PFAS6 DETECTED BELOW APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF 10X THE APPLICABLE MASSDEP CRITERIA

GRAPHIC SCALE
500 250 0 250 500
APPROXIMATE SCALE IN FEET

SOURCE:
1. NEARMAP IMAGERY 2020.
2. Parcel data for NANTUCKET, MA complying with Level 3 of MassGIS digital parcel standard (2016).
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2.9 / 3.0 = INDICATES ANALYTICAL RESULTS FROM PRIMARY AND DUPLICATE SAMPLES
B = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
U = COMPOUND NOT DETECTED
J = RESULT IS ESTIMATED.
BOLD INDICATES DETECTED RESULT.
"PFAS6" REFERS TO THE TOTAL COMBINED CONCENTRATION OF THE SIX REGULATED PFAS COMPOUNDS.NO RESULTS BOX IS SHOWN FOR SAMPLES IN WHICH NO PFAS6 WERE DETECTED.

GROUNDWATER SAMPLING RESULTS NOVEMBER–DECEMBER 2022

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

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DCH	FEB 2023			15295.007.001
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
MRK	FEB 2023	AS SHOWN		5C

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WL-18	0-1'	1'-2'	3'-4'
PFNA	0.3 J	0.35 J	<0.2
PFDA	0.5 J	<0.23	<0.2
PFOS	0.74	1.3	0.58 J

WL-16	0-1'	1'-2'	3'-4'
PFHpA	0.26 J	1.0	0.26 J
PFOA	0.48 J	1.5	0.33 J
PFNA	0.6	0.36 J	<0.19
PFOS	0.93	3.4	0.36 J

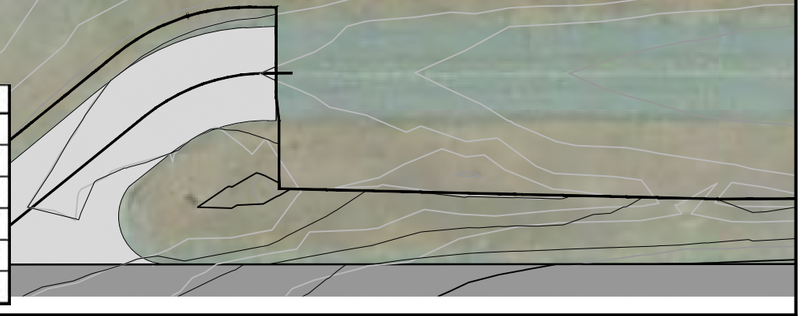
WL-14	0-1'	1'-2'	3'-4'
PFHpA	0.6 J	0.48 J	<0.19
PFOA	0.93	3.9	0.2 J
PFNA	0.45 J	<0.2	<0.19
PFHxS	0.39 J	0.36 J	<0.19
PFOS	1.6	1.0	<0.19

WL-19	0-1'
PFOA	0.36 J
PFNA	0.27 J
PFOS	0.85

WL-15	0-1'	1'-2'	3'-4'
PFHpA	0.73	1.6	<0.2
PFOA	1.4	1.3	0.24 J
PFNA	0.55 J	<0.21	<0.2
PFOS	1.3	1.4	<0.2

WL-17	0-1'	1'-2' / DUP	3'-4'
PFHpA	1.0	1.6 / 1.9	<0.21
PFOA	1.1	1.2 / 1	<0.21
PFNA	0.69	<0.22 / <0.2	<0.21
PFHxS	<0.21	0.8 / 0.9	<0.21
PFOS	19	1.7 / 1.9	0.6 J

WL-18 WL-17 WL-10 WL-16 WL-15 WL-13
WL-19 WL-08 WL-09 WL-11 WL-12 WL-14
SRJ-7 SRJ-38 SRJ-36
SRJ-8 SRJ-37
SRJ-09 SRJ-43 SRJ-1 SRJ-6 SRJ-5 SRJ-56
SRJ-39
SRJ-12
SRJ-40
SRJ-10 SRJ-13
SRJ-29 SRJ-55
SRJ-28 SRJ-14
SRJ-30 SRJ-11 SRJ-4



MassDEP S-1/GW-1 Criteria	PPB or ng/g
Perfluoroheptanoic Acid (PFHpA)	0.5
Perfluorooctanoic Acid (PFOA)	0.72
Perfluorononanoic Acid (PFNA)	0.32
Perfluorodecanoic Acid (PFDA)	0.3
Perfluorohexanesulfonic acid (PFHxS)	0.3
Perfluorooctanesulfonic Acid (PFOS)	2

LEGEND

- EXISTING CONTOUR AT 0.5 FT INTERVAL
- PROPOSED CONTOUR AT 0.5 FT INTERVAL
- SOIL BORING LOCATION
- COMBINED GW/SOIL BORING LOCATION
- GROUNDWATER ONLY BORING LOCATION
- PFAS6 NOT DETECTED
- PFAS6 DETECTED BELOW APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF 10X THE APPLICABLE MASSDEP CRITERIA

NOTES:
1'-2' = INDICATES DEPTH INTERVAL OF SAMPLE IN FEET BELOW GROUND SURFACE
2.9 / 3.0 = INDICATES ANALYTICAL RESULTS FROM PRIMARY AND DUPLICATE SAMPLES
< = INDICATES THE ANALYTE WAS NOT DETECTED.
J = RESULT IS ESTIMATED.
BOLD INDICATES DETECTED RESULT.

- PFAS6 not detected
- PFAS6 detected below criteria
- PFAS6 exceedance of criteria
- PFAS6 exceedance of 10x the criteria

GRAPHIC SCALE
80 40 0 40 80
APPROXIMATE SCALE IN FEET

WATER LINE INVESTIGATION ANALYTICAL RESULTS NOVEMBER 2022

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

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MRK	FEB 2023	AS SHOWN		6

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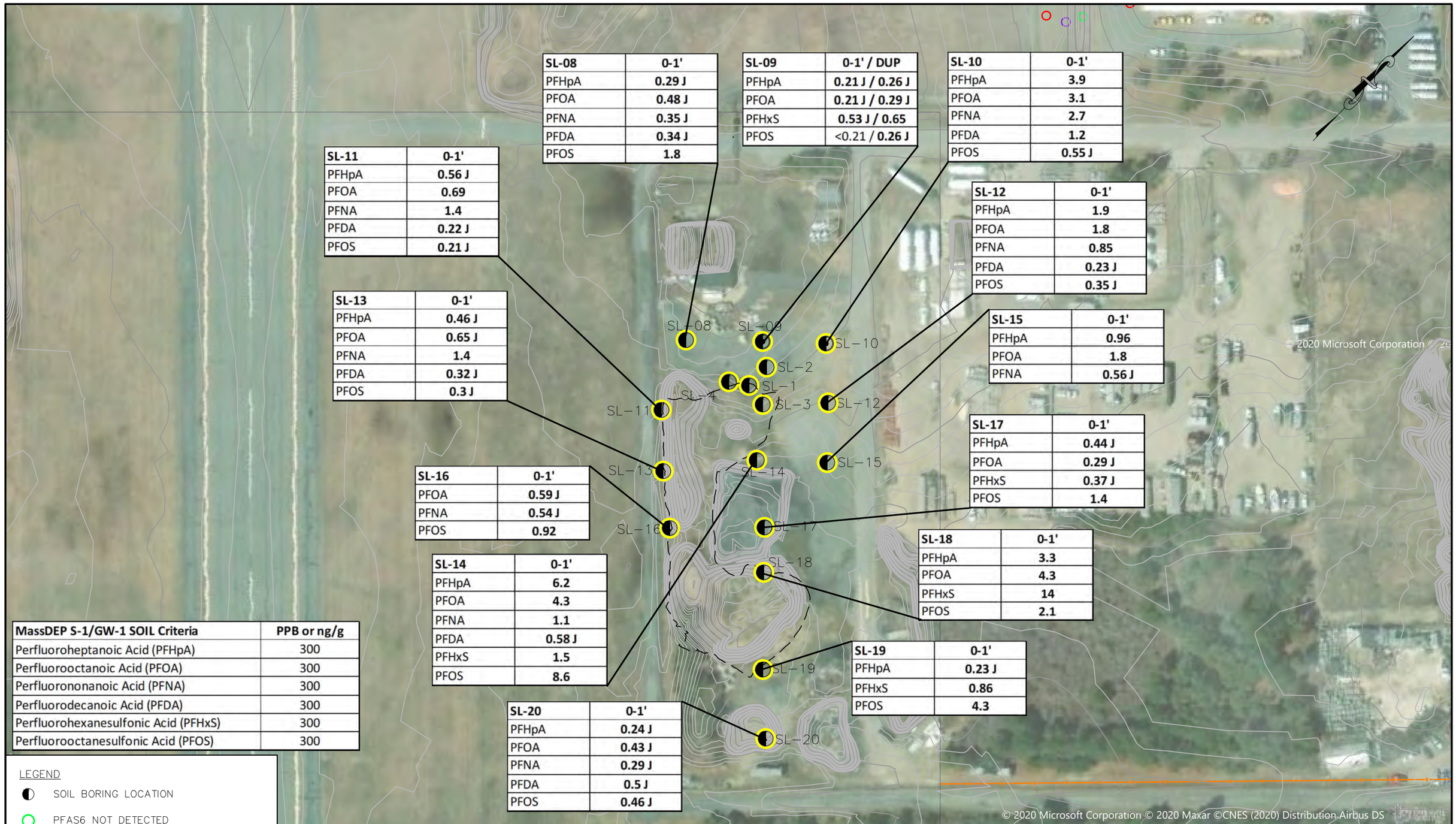

SL-08	0-1'
PFHpA	0.29 J
PFOA	0.48 J
PFNA	0.35 J
PFDA	0.34 J
PFOS	1.8

SL-09	0-1' / DUP
PFHpA	0.21 J / 0.26 J
PFOA	0.21 J / 0.29 J
PFHxS	0.53 J / 0.65
PFOS	<0.21 / 0.26 J

SL-10	0-1'
PFHpA	3.9
PFOA	3.1
PFNA	2.7
PFDA	1.2
PFOS	0.55 J

SL-11	0-1'
PFHpA	0.56 J
PFOA	0.69
PFNA	1.4
PFDA	0.22 J
PFOS	0.21 J

SL-12	0-1'
PFHpA	1.9
PFOA	1.8
PFNA	0.85
PFDA	0.23 J
PFOS	0.35 J

SL-13	0-1'
PFHpA	0.46 J
PFOA	0.65 J
PFNA	1.4
PFDA	0.32 J
PFOS	0.3 J

SL-15	0-1'
PFHpA	0.96
PFOA	1.8
PFNA	0.56 J

SL-17	0-1'
PFHpA	0.44 J
PFOA	0.29 J
PFHxS	0.37 J
PFOS	1.4

SL-16	0-1'
PFOA	0.59 J
PFNA	0.54 J
PFOS	0.92

SL-18	0-1'
PFHpA	3.3
PFOA	4.3
PFHxS	14
PFOS	2.1

SL-14	0-1'
PFHpA	6.2
PFOA	4.3
PFNA	1.1
PFDA	0.58 J
PFHxS	1.5
PFOS	8.6

SL-19	0-1'
PFHpA	0.23 J
PFHxS	0.86
PFOS	4.3

SL-20	0-1'
PFHpA	0.24 J
PFOA	0.43 J
PFNA	0.29 J
PFDA	0.5 J
PFOS	0.46 J

MassDEP S-1/GW-1 SOIL Criteria	PPB or ng/g
Perfluoroheptanoic Acid (PFHpA)	300
Perfluorooctanoic Acid (PFOA)	300
Perfluorononanoic Acid (PFNA)	300
Perfluorodecanoic Acid (PFDA)	300
Perfluorohexanesulfonic Acid (PFHxS)	300
Perfluorooctanesulfonic Acid (PFOS)	300

LEGEND

- SOIL BORING LOCATION
- PFAS6 NOT DETECTED
- PFAS6 DETECTED BELOW APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF 10X THE APPLICABLE MASSDEP CRITERIA

GRAPHIC SCALE

100 50 0 50 100

APPROXIMATE SCALE IN FEET

STROJNY LOT SOIL INVESTIGATION
ANALYTICAL RESULTS
NOVEMBER 2022

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

WESTON SOLUTIONS

CONCORD NEW HAMPSHIRE

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LLK	FEB 2023	AS SHOWN		7

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Feb 16,2023 - 1:17pm HERNANDD
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NOR-19	0-1'	1'-2' / DUP	3'-4'
PFHpA	**0.42 J**	**0.4 J / 0.36 J**	<0.2 J
PFOA	**0.6 J**	**0.48 J / 0.59 J**	<0.2 J
PFNA	**0.62 J**	<0.21 J / **0.25 J**	<0.2 J
PFDA	**0.27 J**	<0.21 J / <0.22 J	<0.2 J

NOR-18	0-1'	1'-2'	3'-4'
PFHpA	**0.69**	**1.0 J**	<0.2 J
PFOA	**0.79**	**0.28 J**	<0.2 J
PFNA	**0.8**	<0.2 J	<0.2 J
PFDA	**0.36 J**	<0.2 J	<0.2 J

NOR-15	4'-6'	6'-8'	8'-10'	15'-20'	20'-30'	30'-40'	40'-50'	50'-55'
PFHpA	**1.3**	**1.3**	**0.46 J**	**1.2**	**0.7 J**	**0.41 J**	**0.33 J**	<0.22 J

NOR-14	4'-6'	6'-8'	8'-10'	15'-20'	20'-30'	30'-40'	40'-50'
PFHpA	**0.73**	**0.49 J**	**1.0 J**	**0.57 J**	<0.19	<0.2	<0.2

MassDEP S-1/GW-1 SOIL Criteria	PPB or ng/g
Perfluoroheptanoic Acid (PFHpA)	0.5
Perfluorooctanoic Acid (PFOA)	0.72
Perfluorononanoic Acid (PFNA)	0.32
Perfluorodecanoic Acid (PFDA)	0.3
Perfluorohexanesulfonic acid (PFHxS)	0.3
Perfluorooctanesulfonic Acid (PFOS)	2

NOR-9
NOR-10
NOR-7
NOR-19
TACK-2
NOR-02
NOR-23
NOR-22
NOR-18
NOR-12
NOR-11
NOR-15
NOR-16
NOR-17
NOR-13
NOR-14
NOR-8
NOR-3
NOR-24
NOR-25

LEGEND

- EXISTING CONTOUR AT 0.5 FT INTERVAL
- SOIL BORING LOCATION
- GROUNDWATER GRAB SAMPLE LOCATION
- PFAS6 NOT DETECTED
- PFAS6 DETECTED BELOW APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF 10X THE APPLICABLE MASSDEP CRITERIA
- ZONE II WELLHEAD PROTECTION AREA

NOTES:
0'-1' = Indicates depth interval of sample in feet below ground surface
J = Result is an approximate value.
U - Analyte was not detected
< = Indicates the analyte was analyzed for but not detected.
If a duplicate sample was collected, the higher of the two reported concentrations is posted.
PFAS6 refers to the total combined concentration of the six regulated PFAS compounds.

GRAPHIC SCALE
100 50 0 50 100
APPROXIMATE SCALE IN FEET

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SUN ISLAND AREA SOIL INVESTIGATION ANALYTICAL RESULTS NOVEMBER 2022

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
DCH	FEB 2023			15295.007.001
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
LLK	FEB 2023	AS SHOWN		8

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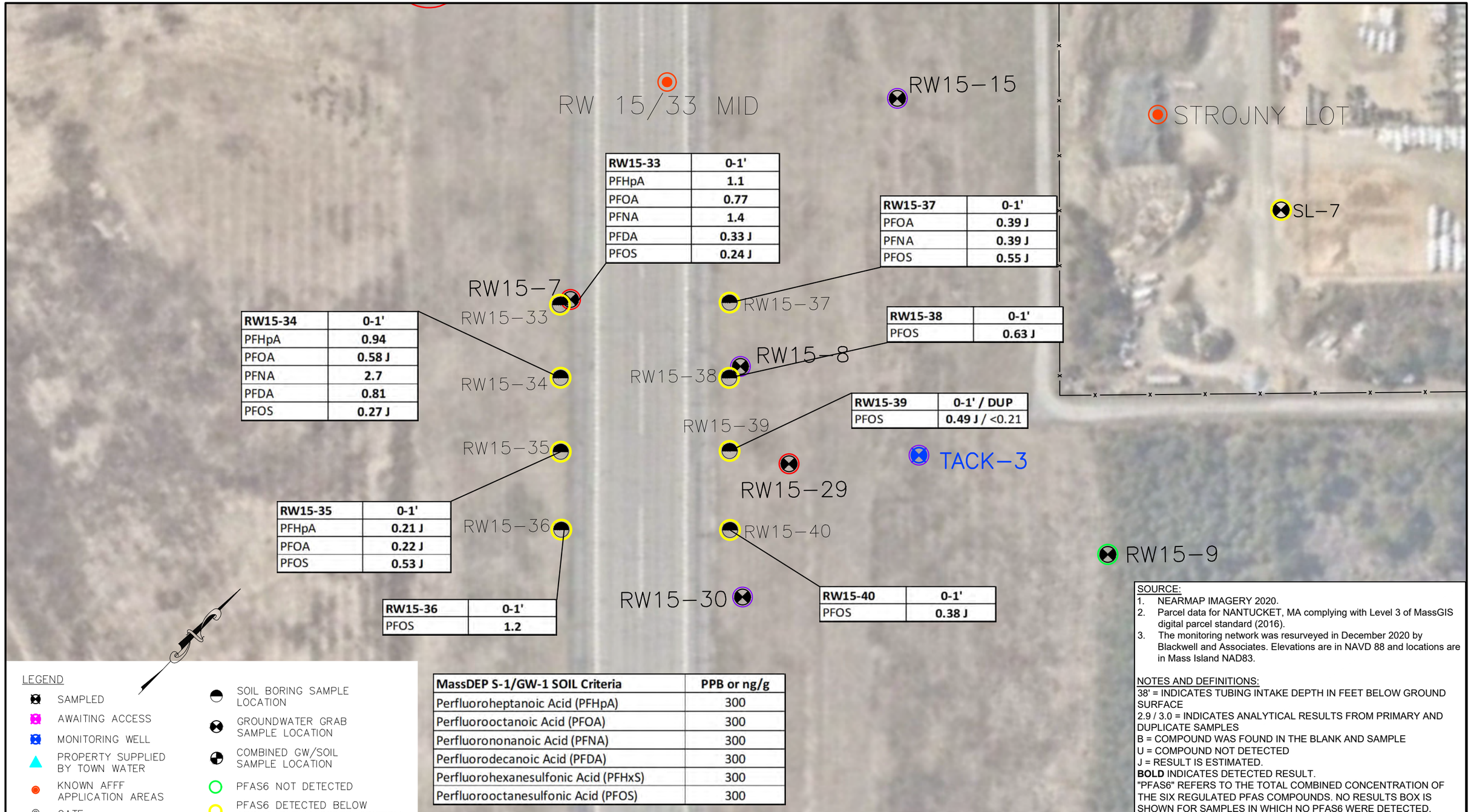

RW15-33	0-1'
PFHpA	1.1
PFOA	0.77
PFNA	1.4
PFDA	0.33 J
PFOS	0.24 J

RW15-37	0-1'
PFOA	0.39 J
PFNA	0.39 J
PFOS	0.55 J

RW15-34	0-1'
PFHpA	0.94
PFOA	0.58 J
PFNA	2.7
PFDA	0.81
PFOS	0.27 J

RW15-38	0-1'
PFOS	0.63 J

RW15-39	0-1' / DUP
PFOS	0.49 J / <0.21

RW15-35	0-1'
PFHpA	0.21 J
PFOA	0.22 J
PFOS	0.53 J

RW15-36	0-1'
PFOS	1.2

RW15-40	0-1'
PFOS	0.38 J

LEGEND

- SAMPLED
- AWAITING ACCESS
- MONITORING WELL
- PROPERTY SUPPLIED BY TOWN WATER
- KNOWN AFFF APPLICATION AREAS
- GATE
- PROPERTY BOUNDARY
- ESTIMATED DISPOSAL SITE BOUNDARY
- SITE FENCE
- A TAXIWAY
- RWY 06 RUNWAY
- SOIL BORING SAMPLE LOCATION
- GROUNDWATER GRAB SAMPLE LOCATION
- COMBINED GW/SOIL SAMPLE LOCATION
- PFAS6 NOT DETECTED
- PFAS6 DETECTED BELOW APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF APPLICABLE MASSDEP CRITERIA
- PFAS6 EXCEEDANCE OF 10X THE APPLICABLE MASSDEP CRITERIA

GRAPHIC SCALE
100 50 0 50 100
APPROXIMATE SCALE IN FEET

MassDEP S-1/GW-1 SOIL Criteria	PPB or ng/g
Perfluoroheptanoic Acid (PFHpA)	300
Perfluorooctanoic Acid (PFOA)	300
Perfluorononanoic Acid (PFNA)	300
Perfluorodecanoic Acid (PFDA)	300
Perfluorohexanesulfonic Acid (PFHxS)	300
Perfluorooctanesulfonic Acid (PFOS)	300

SOURCE:
1. NEARMAP IMAGERY 2020.
2. Parcel data for NANTUCKET, MA complying with Level 3 of MassGIS digital parcel standard (2016).
3. The monitoring network was resurveyed in December 2020 by Blackwell and Associates. Elevations are in NAVD 88 and locations are in Mass Island NAD83.

NOTES AND DEFINITIONS:
38' = INDICATES TUBING INTAKE DEPTH IN FEET BELOW GROUND SURFACE
2.9 / 3.0 = INDICATES ANALYTICAL RESULTS FROM PRIMARY AND DUPLICATE SAMPLES
B = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
U = COMPOUND NOT DETECTED
J = RESULT IS ESTIMATED.
BOLD INDICATES DETECTED RESULT.
"PFAS6" REFERS TO THE TOTAL COMBINED CONCENTRATION OF THE SIX REGULATED PFAS COMPOUNDS. NO RESULTS BOX IS SHOWN FOR SAMPLES IN WHICH NO PFAS6 WERE DETECTED.

RUNWAY 15/33 MID SOIL ANALYTICAL RESULTS NOVEMBER 2022

NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

WESTON SOLUTIONS
CONCORD NEW HAMPSHIRE

DRAWN	DATE	DES. ENG.	DATE	W.O. NO.
DCH	FEB 2023			15295.007.001
CHECKED	DATE	SCALE	REVISION	FIGURE NO.
MRK	FEB 2023	AS SHOWN		9

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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
		410-84924-7	5/19/2022	**1.9**	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	**2.1**	**4.0**	1.7 U	1.7 U
		410-95902-4	8/23/2022	**4.8**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.1**	**5.9**	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
		410-84924-8	5/19/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**3.7**	1.8 U	1.8 U	1.8 U
		410-95902-7	8/23/2022	**4.2**	**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	**8.2**	**1.9**	1.6 U	1.6 U
		410-106101-3	11/16/2022	**8.9 J**	**3.2 J**	1.6 U J	1.6 U J	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U J	**17**	**4.8**	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
	Pre-POET	410-63834-35	11/16/2021	**52**	**28**	**33**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.6**	**170**	**520**	1.7 U	1.7 U
	Mid-POET	410-63834-34	11/16/2021	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	410-63834-33	11/16/2021	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 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
	Pre-POET	410-63834-38	11/16/2021	**65**	**26**	**33**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.6**	**230**	**530**	1.7 U	1.7 U
	Mid-POET	410-63834-37	11/16/2021	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	410-63834-36	11/16/2021	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
		410-84924-2	5/19/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**7.9**	**5.4**	1.8 U	1.8 U
		410-95902-2	8/23/2022	1.6 U	1.6 U	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**	**4.6**	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
	Pre-POET	410-63834-20	11/15/2021	**9.5**	**2.6**	**5.3**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.7**	**42**	**6.5**	1.8 U	1.8 U
	Mid-POET	410-63834-19	11/15/2021	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	410-63834-18	11/15/2021	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	410-74410-13	2/23/2022	**4.5**	1.8 U	**5.4**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.7**	**39**	**4.9**	1.8 U	1.8 U
	Mid-POET	410-74410-12	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	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	410-74410-11	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	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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			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
		410-63834-31	11/15/2021	**4.8**	**2.2**	**2.2**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**11**	**6.1**	1.7 U	1.7 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
		410-63834-17	11/15/2021	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	**2.0 J**	1.7 U	1.7 U	1.7 U
		410-84924-6	5/19/2022	1.7 U	1.7 U	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	1.7 U
		410-95902-9	8/23/2022	1.7 U	1.7 U	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**	1.7 U	1.7 U	1.7 U
		410-106101-6	11/16/2022	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ	**2.3**	1.7 U	1.7 U	1.7 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 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

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 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
		410-84924-4	5/19/2022	1.7 U	1.7 U	**1.8**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.1**	**2.7**	1.7 U	1.7 U
		410-95902-5	8/23/2022	**2.0**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**5.8**	**7.3**	1.6 U	1.6 U
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

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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) - cont.	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
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
		410-74410-14	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**15**	**7.0**	1.8 U	1.8 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
	Pre POET	410-63834-30	11/15/2021	**5.9**	**2.2**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.8**	**17**	1.7 U	1.7 U	1.7 U
	Mid POET	410-63834-29	11/15/2021	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	410-63834-28	11/15/2021	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 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
		410-63834-8	11/15/2021	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 J**	**8.7 J**	1.7 U *+	1.7 U *+
		410-74409-6	2/24/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**9.6**	**8.0**	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**														
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
	Pre-POET	410-63834-24	11/15/2021	**520 J**	**43 J**	**1500**	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	**83 J**	**1500**	**18**	1.7 U	1.7 U
	Mid POET	410-63834-23	11/15/2021	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	410-63834-22	11/15/2021	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

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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 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
	Pre-POET	410-74409-3	2/23/2022	1.8 U	1.8 U	1.8 U	**10**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**6.2**	**28**	1.8 UJ	1.8 UJ
	Mid-POET	410-74409-2	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	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	410-74409-1	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	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**														
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
	Mid-POET	410-74409-5	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	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	410-74409-4	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	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 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
		410-62628-2	11/1/2021	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	2.6 U	1.8 U
		410-84924-3	5/19/2022	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
		410-95902-3	8/23/2022	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		410-106101-1	11/16/2022	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ	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 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
	Pre POET	410-63834-27	11/15/2021	**120**	**38**	**64**	**39**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**44**	**780**	**260**	1.7 U	1.7 U
	Mid POET	410-63834-26	11/15/2021	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	410-63834-25	11/15/2021	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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			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

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 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
	Pre POET	410-63834-16	11/15/2021	**510 J**	**290 J**	**110 J**	**89 J**	**55 J**	**6.6 J**	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	**11 J**	**12 J**	1.8 UJ	1.8 UJ
	Mid POET	410-63834-15	11/15/2021	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	410-63834-14	11/15/2021	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
	Mid POET	410-63834-13	11/15/2021	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	410-63834-12	11/15/2021	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
		410-62628-3	11/1/2021	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	**3.6**	**3.4**	1.8 U	2.6 U	1.8 U
		410-95902-8	8/23/2022	**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	**4.2**	**8.9**	1.7 U	1.7 U	1.7 U
		410-106101-2	11/16/2022	**2.2 J**	1.7 UJ	1.7 UJ	1.7 UJ	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.9 J**	**5**	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 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
	WG-SPGT	410-62628-4	11/1/2021	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	**3.9**	**3.7**	1.8 U	2.7 U	1.8 U
	EV-INF	410-63834-21	11/15/2021	**10**	**2.7**	**5.5**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**6.0**	**43**	**6.8**	1.8 U	1.8 U
	MP-BFCT	410-74410-15	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**15**	**7.4**	1.8 U	1.8 U
	PR-BFCT	410-74409-7	2/24/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**9.1**	**8.3**	1.8 U	1.8 U
	JQ-SPGT	410-84924-5	5/19/2022	1.7 U	1.7 U	**1.9**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.5**	**3.0**	1.7 U	1.7 U
	JQ-SPGT	410-95902-6	8/23/2022	**2.0**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**6.2**	**7.4**	1.6 U	1.6 U
	BI-SPGT	410-106101-4	11/16/2022	**9.3 J**	**3.5 J**	1.7 UJ	1.7 UJ	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ	**16**	**4.8**	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**														
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

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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	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
	410-62628-1	11/1/2021	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
	410-63834-32	11/15/2021	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
	410-74410-1	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-74409-11	2/24/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	1.8 U
	410-84924-1	5/19/2022	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	410-95902-1	8/23/2022	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
	410-106101-5	11/16/2022	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
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

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 (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
	410-62628-5	11/1/2021	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
	410-63834-42	11/9/2021	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 *+
	410-74410-16	2/23/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	410-74409-12	2/24/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 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.

[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.

*- = 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.

*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 – Nobadeer Way Area
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	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorododecanoic acid	Perfluoroundecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
		Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFTrDA [13]	PFTeDA [14]	PFDoDA [12]	PFUnDA [11]	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	72629-94-8	376-06-7	307-55-1	2058-94-8	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 AY (3 Evergreen)	410-15879-4	9/30/2020	**5.5**	**3.0**	**7.5**	**2.3**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.7**	**32**	**23**	1.7 U	1.7 U
Property BK (3 Daffodil)	410-19522-12	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	**2.0**	1.8 U	1.8 U	1.8 U
	410-22053-8	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	**2.1**	1.7 U	1.7 U	1.7 U
Property DJ (14 Evergreen)	410-19522-4	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	**3.2**	1.8 U	**3.1**	1.8 U	1.8 U
Property FC (7 Nobadeer)	410-15879-12	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 GL (2 Nobadeer)	410-84924-9	5/19/2022	**4.7**	**3.2**	**5.5**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**4.4**	1.8 U	**4.3**	1.8 U	1.8 U
Property IP (6 Evergreen)	410-98188-1	9/14/2022	**3.3**	**4.8**	**7.9**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.0**	1.8 U	**5.6**	1.8 U	1.8 U
	410-98188-2	9/14/2022 (Dup)	**3.2**	**4.7**	**7.9**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.9**	1.7 U	**5.6**	1.7 U	1.7 U
	410-102002-2	10/13/2022	**3.6**	**5.5**	**9.2 J**	1.7 U	**2.4**	1.7 U	1.7 U	1.7 U	1.7 U	**1.7**	1.7 U	**4.8**	1.7 U	1.7 U
	410-102002-3	10/13/2022 (Dup)	**3.1**	**4.4**	**6.5 J**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**4.9**	1.7 U	1.7 U
Property JA (9 Evergreen)	410-19522-2	10/30/2020	1.7 U	1.7 U	**1.9**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.2**	1.7 U	**3.3**	1.7 U	1.7 U
Property KB (6 Nobadeer)	410-15879-6	9/30/2020	**3.2**	1.7 U	**2.5**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.4**	**2.2**	1.7 U	1.7 U	1.7 U
Property KX (10 Nobadeer)	410-15879-14	9/30/2020	1.7 U	1.7 U	**3.0**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.1**	**3.3**	**2.1**	1.7 U	1.7 U
Property LG (1 Evergreen)	410-10038-18	8/4/2020	**4.2**	**2.0**	**6.0**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.0**	**30**	**16**	1.8 U	1.8 U
Property LW (21 Airport)	410-22053-10	11/24/2020	**18**	**2.6**	**14**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**3.0**	**80**	**45**	1.8 U	1.8 U
Property OI (9 Nobadeer)	410-15872-9	9/30/2020	1.8 U	1.8 U	**4.7**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**1.9**	**2.9**	1.8 U	1.8 U
Property PN (4 Nobadeer)	410-15879-10	9/30/2020	1.7 U	1.7 U	**3.4**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.1**	1.7 U	**1.9**	1.7 U	1.7 U
Property QR (10 Evergreen)	410-22053-9	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	**4.9**	1.7 U	1.7 U	1.7 U	1.7 U
Property TF (1 Nobadeer)	410-10038-17	8/4/2020	**1.9**	1.8 U	**2.0**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**9.1**	**8.7**	1.8 U	1.8 U	1.8 U
Property UL (11 Nobadeer)	410-10038-16	8/4/2020	**4.7**	**4.0**	**7.0**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**16**	**5.9**	**5.9**	1.8 U	1.8 U
Property WJ (3 Nobadeer)	410-15879-8	9/30/2020	2.0 U	2.0 U	**3.8**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**2.1**	**2.9**	2.0 U	2.0 U	2.0 U
Property WU (12 Nobadeer)	410-10038-15	8/4/2020	**4.5**	**2.6**	**6.0**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.7**	**6.4**	**7.2**	1.8 U	1.8 U
Property XT (5 Nobadeer)	410-15879-1	9/30/2020	**1.9**	1.6 U	**3.0**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**6.3**	**2.0**	1.6 U	1.6 U	1.6 U
Property XY (8 Nobadeer)	410-15872-7	9/30/2020	1.7 U	1.7 U	**3.1**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.1**	**1.9**	1.7 U	1.7 U	1.7 U
Property YD (1 Daffodil)	410-15872-1	9/30/2020	**6.4**	**8.5**	**21**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.1**	**12**	1.7 U	1.7 U
Property ZW (8 Evergreen)	410-15872-15	9/30/2020	**11**	**15**	**23**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**3.2**	**3.8**	1.8 U	1.8 U

Table 2
Summary of PFAS Detections in Drinking Water – Nobadeer Way Area
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	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorododecanoic acid	Perfluoroundecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	NEtFOSAA	NMeFOSAA
			Acronym	PFHxA [6]	PFHpA [7]	PFOA [8]	PFNA [9]	PFDA [10]	PFTrDA [13]	PFTeDA [14]	PFDoDA [12]	PFUnDA [11]	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	72629-94-8	376-06-7	307-55-1	2058-94-8	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																	
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
FIELD BLANKS		410-10038-1	8/4/2020 (Kenney)	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
		410-15879-3	9/30/2020 (Kenney)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		410-15872-11	9/30/2020 (Kenney)	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	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 (Kenney)	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	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 (Kenney)	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
		410-98188-3	9/14/2022 (Kenney)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		410-102002-1	10/13/2022 (Kenney)	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
TRIP BLANKS		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
		410-15879-16	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
		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

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
Dup = duplicate sample

U = Not detected
J = Estimated value is greater than or equal to the Method Detection Limit and less than the Limit of Quantitation
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.
Orange shading indicates current data.

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	120226-60-1
					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
		Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	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 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	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	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	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	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	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	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	0.21 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	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	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	0.64 U	0.64 U	0.64 U	0.64 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	0.42 U	0.21 U	0.21 U	3.6	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 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	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	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	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	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	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	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	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	0.40 U	0.28 J	9.8	330	1.1	2.8	0.20 U	0.20 U	4.7	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	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	0.38 U	0.19 U	3.2	1400	0.19 U	4.5 I	0.19 U	0.19 U	0.19 UJ	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	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	0.41 U	0.20 U	8.3	710	0.95	0.84	0.20 U	0.20 U	1.0 J	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	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	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	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	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	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	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	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	0.39 U	0.20 U	5.7	1300	4.1	2.1 I	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	0.98 J	0.59 U	0.59 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	0.38 U	0.19 U	13	82	2.0	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
			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	0.44 U	0.22 U	8.4	75	2.1	0.22 U	0.22 U	0.22 U	0.22 U	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	0.65 U	0.65 U	0.65 U	0.65 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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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
	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	2.0 I	4.5	5.0	2.9	1.4	0.31 J	0.21 U	6.1	6.5	30	220	3.6	0.51 J	3.2	4.4	3.2	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	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	0.43 U	0.22 U	0.71	8.5	0.22 U	0.53 J	3.4	0.22 U	5.7	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	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	0.42 U	0.51 J	4.8	43	0.51 J	0.43 J	1.5	0.21 U	2.1	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	1.3 J	1.8 J	1.2 J
			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	0.47 J	0.72	8.7	80	0.93	0.53 J	1.6	0.21 U	2.2	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	1.4 J	2.1 J	1.8 J
			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	0.42 U	0.21 U	1.5	23	0.21 U	2.1	0.3 JI	0.21 U	1.6	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
		RW6-03-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	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	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	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	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	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	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	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
		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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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
		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	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	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	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	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	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	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	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	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	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	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	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	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	0.40 J	0.45 J	2.8	32	0.27 J	0.20 U	0.62	1.1 J	0.64	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	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	0.40 U	0.20 U	0.20 U	0.71	0.20 U	0.20 U	1.5	0.20 U	2.2	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	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	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	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	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	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	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	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	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	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	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	0.40 U	0.20 U	0.20 U	21	0.20 U	4.5	0.37 J	0.20 U	3.3	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	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	0.43 U	0.22 U	1.4	16 J	0.22 U	0.27 J	0.99	0.22 U	0.38 J	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	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	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	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	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	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	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	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	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	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	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	0.40 U	0.20 U	0.2 U	22	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
		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	3.1	3.1	18	130	1.7	1.2	0.62	1.1 J	2.3	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	6.9	2.1 J	4.0
			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	0.40 U	0.20 U	0.20 U	35	0.20 U	1.6	0.20 U	0.20 U	0.85	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	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	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	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	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	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	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	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	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	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	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	0.42 U	0.21 U	1.3	43	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
		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	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	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	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	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	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	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	0.40 U	0.20 U	0.96	16	0.20 U	1.9	1.0	0.20 U	3.3	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	0.71 J	0.6 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	0.40 U	0.20 U	0.20 U	11	0.20 U	0.96	0.20 U	0.20 U	0.24 J	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.42 U	0.21 U	1.1	20	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	410-36925-2	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	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	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	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	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 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	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	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
		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	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	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	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	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	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	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	0.44 U	0.22 U	1.9	51	0.23 J	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	410-36925-8	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	0.43 U	0.22 U	0.87	150	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
		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	0.39 U	0.20 U	0.74	20	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
			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	0.42 U	0.21 U	2.5	38	0.32 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	0.63 U	0.63 U	0.63 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	0.42 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 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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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 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

Subgroup: Carboxylic Acids (AFFF APPLICATION AREAS — Runway 6 Runup)

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled	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
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]
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
RW6-32-S	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
RW6-33-S	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
RW6-33-S	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
RW6-34-S	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
RW6-35-S	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
RW6-36-S	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
RW6-37-S	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
RW6-38-S	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
RW6-39-S	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
RW6-40-S	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
RW6-41-S	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
RW6-42-S	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
RW6-43-S	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
RW6-44-S	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
RW6-44-S	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
RW6-45-S	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
RW6-46-S	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
RW6-47-S	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
RW6-47-S	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
RW6-48-S	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
RW6-48-S	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
RW6-49-S	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
RW6-49-S	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
RW6-50-S	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
RW6-51-S	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
RW6-52-S	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
RW6-53-S	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
RW6-54-S	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
RW6-55-S	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
RW6-55-S	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
RW6-56-S	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
RW6-57-S	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
RW6-58-S	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
RW6-59-S	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
RW6-59-S	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
RW6-60-S	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
RW6-60-S	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
RW6-61-S	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
RW6-61-S	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
RW6-62-S	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
RW6-62-S	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
RW6-63-S	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
RW6-64-S	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
RW6-64-S	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
RW6-65-S	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

Subgroup: Sulfonic Acids / Sulfonamides

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled	Perfluorobutanesulfonic acid	Perfluoropentanesulfonate	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	Perfluoroheptanesulfonic acid	Perfluorononanesulfonic acid	Perfluorodecanesulfonic acid	Perfluorododecanesulfonic acid	Perfluorooctane-sulfonamide
Acronym				PFBS [4S]	PFPeS [5S]	PFHxS [6S]	PFOS [8S]	PFHpS [7S]	PFNS [9S]	PFDS [10S]	PFDoS [12S]	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
RW6-32-S	0-1	410-37217-10	4/20/2021	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
RW6-32-S	1-2	410-37217-11	4/20/2021	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
RW6-33-S	0-1	410-37217-7	4/20/2021	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
RW6-33-S	0-1 (DUP)	410-37217-8	4/20/2021	0.40 U	0.20 U	0.20 U	1.4	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-33-S	1-2	410-37217-9	4/20/2021	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	4/20/2021	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
RW6-34-S	1-2	410-37217-6	4/20/2021	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	4/20/2021	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
RW6-35-S	1-2	410-37217-4	4/20/2021	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	4/20/2021	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
RW6-36-S	1-2	410-37217-2	4/20/2021	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	4/20/2021	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
RW6-37-S	1-2	410-36925-33	4/20/2021	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	4/20/2021	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
RW6-38-S	1-2	410-36925-31	4/20/2021	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
RW6-39-S	0-1	410-36925-28	4/20/2021	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
RW6-39-S	1-2	410-36925-29	4/20/2021	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	4/20/2021	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
RW6-40-S	1-2	410-36925-27	4/20/2021	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	4/22/2021	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
RW6-41-S	1-2	410-37210-7	4/22/2021	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	4/22/2021	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
RW6-42-S	1-2	410-37210-5	4/22/2021	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
RW6-43-S	0-1	410-37219-27	4/22/2021	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
RW6-43-S	1-2	410-37219-28	4/22/2021	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	4/22/2021	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
RW6-44-S	1-2	410-37210-2	4/22/2021	0.45 U	0.22 U	0.35 J	84	1.0	0.22 U	0.22 U	0.22 U	0.22 U
RW6-44-S	1-2 (DUP)	410-37210-3	4/22/2021	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	4/22/2021	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
RW6-45-S	1-2	410-37219-26	4/22/2021	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
RW6-46-S	0-1	410-37219-23	4/22/2021	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
RW6-46-S	1-2	410-37219-24	4/22/2021	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	5/18/2021	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
RW6-47-S	10-11	410-40917-25	5/18/2021	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
RW6-47-S	13-14	410-40917-26	5/18/2021	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	5/18/2021	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
RW6-48-S	7-8	410-40917-29	5/18/2021	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
RW6-48-S	13-14	410-40917-30	5/18/2021	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	5/19/2021	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
RW6-49-S	5-6	410-40916-2	5/19/2021	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
RW6-49-S	8-9	410-40916-3	5/19/2021	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	5/19/2021	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
RW6-50-S	1-2	410-40916-5	5/19/2021	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	5/19/2021	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
RW6-51-S	1-2	410-40916-7	5/19/2021	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	5/19/2021	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
RW6-52-S	1-2	410-40916-9	5/19/2021	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	5/19/2021	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
RW6-53-S	1-2	410-40916-11	5/19/2021	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	5/19/2021	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
RW6-54-S	1-2	410-40916-13	5/19/2021	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	5/19/2021	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
RW6-55-S	1-2	410-40916-15	5/19/2021	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
RW6-55-S	1-2 (DUP)	410-40916-16	5/19/2021	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	5/19/2021	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
RW6-56-S	1-2	410-40916-18	5/19/2021	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	5/19/2021	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
RW6-57-S	1-2	410-40916-20	5/19/2021	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	5/19/2021	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
RW6-58-S	1-2	410-40916-22	5/19/2021	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	5/19/2021	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
RW6-59-S	7-8	410-40916-24	5/19/2021	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
RW6-59-S	12-13	410-40916-25	5/19/2021	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	5/21/2021	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
RW6-60-S	4-5	410-40918-20	5/21/2021	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
RW6-60-S	8-9	410-40918-21	5/21/2021	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
RW6-61-S	0-1	410-40918-22	5/21/2021	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
RW6-61-S	5-6	410-40918-23	5/21/2021	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
RW6-61-S	9-10	410-40918-24	5/21/2021	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	5/21/2021	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
RW6-62-S	0-1 (DUP)	410-40918-26	5/21/2021	0.40 U	0.20 U	0.95	13	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
RW6-62-S	1-2	410-40918-27	5/21/2021	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	5/21/2021	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
RW6-63-S	1-2	410-40918-29	5/21/2021	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
RW6-64-S	1-2	410-40918-30	5/21/2021	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
RW6-64-S	9-10	410-40918-31	5/21/2021	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
RW6-64-S	17-18	410-40918-32	5/21/2021	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
RW6-65-S	0-1	410-40918-33	5/21/2021	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
RW6-65-S	1-2	410-40918-34	5/21/2021	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

Subgroups: Perfluoroalkane Sulfonamido Substances; Precursors and Replacement Compounds

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-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	120226-60-1
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	4/20/2021	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	0.58 U	0.58 U	0.58 U	0.58 U
RW6-32-S	1-2	410-37217-11	4/20/2021	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
RW6-33-S	0-1	410-37217-7	4/20/2021	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
RW6-33-S	0-1 (DUP)	410-37217-8	4/20/2021	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
RW6-33-S	1-2	410-37217-9	4/20/2021	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
RW6-34-S	0-1	410-37217-5	4/20/2021	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
RW6-34-S	1-2	410-37217-6	4/20/2021	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
RW6-35-S	0-1	410-37217-3	4/20/2021	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
RW6-35-S	1-2	410-37217-4	4/20/2021	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
RW6-36-S	0-1	410-37217-1	4/20/2021	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
RW6-36-S	1-2	410-37217-2	4/20/2021	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	0.63 U	0.63 U	0.63 U	0.63 U
RW6-37-S	0-1	410-36925-32	4/20/2021	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
RW6-37-S	1-2	410-36925-33	4/20/2021	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	4/20/2021	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
RW6-38-S	1-2	410-36925-31	4/20/2021	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	0.59 U
RW6-39-S	0-1	410-36925-28	4/20/2021	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
RW6-39-S	1-2	410-36925-29	4/20/2021	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
RW6-40-S	0-1	410-36925-26	4/20/2021	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
RW6-40-S	1-2	410-36925-27	4/20/2021	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	4/22/2021	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	0.58 U
RW6-41-S	1-2	410-37210-7	4/22/2021	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
RW6-42-S	0-1	410-37210-4	4/22/2021	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
RW6-42-S	1-2	410-37210-5	4/22/2021	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
RW6-43-S	0-1	410-37219-27	4/22/2021	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	0.59 U
RW6-43-S	1-2	410-37219-28	4/22/2021	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
RW6-44-S	0-1	410-37210-1	4/22/2021	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	0.59 U
RW6-44-S	1-2	410-37210-2	4/22/2021	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
RW6-44-S	1-2 (DUP)	410-37210-3	4/22/2021	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
RW6-45-S	0-1	410-37219-25	4/22/2021	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
RW6-45-S	1-2	410-37219-26	4/22/2021	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
RW6-46-S	0-1	410-37219-23	4/22/2021	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
RW6-46-S	1-2	410-37219-24	4/22/2021	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
RW6-47-S	3-4	410-40917-24	5/18/2021	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	1.3 J	0.59 U
RW6-47-S	10-11	410-40917-25	5/18/2021	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	0.98 J	0.62 U	0.62 U
RW6-47-S	13-14	410-40917-26	5/18/2021	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
RW6-48-S	3-4	410-40917-28	5/18/2021	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	0.95 J	0.59 U	0.59 U
RW6-48-S	7-8	410-40917-29	5/18/2021	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	4.1	0.60 U	0.60 U
RW6-48-S	13-14	410-40917-30	5/18/2021	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
RW6-49-S	3-4	410-40916-1	5/19/2021	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
RW6-49-S	5-6	410-40916-2	5/19/2021	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	2.0	0.58 U	0.58 U
RW6-49-S	8-9	410-40916-3	5/19/2021	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	0.59 U	0.67 J	0.59 U	0.59 U
RW6-50-S	0-1	410-40916-4	5/19/2021	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
RW6-50-S	1-2	410-40916-5	5/19/2021	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	5/19/2021	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
RW6-51-S	1-2	410-40916-7	5/19/2021	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
RW6-52-S	0-1	410-40916-8	5/19/2021	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
RW6-52-S	1-2	410-40916-9	5/19/2021	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
RW6-53-S	0-1	410-40916-10	5/19/2021	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
RW6-53-S	1-2	410-40916-11	5/19/2021	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
RW6-54-S	0-1	410-40916-12	5/19/2021	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
RW6-54-S	1-2	410-40916-13	5/19/2021	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
RW6-55-S	0-1	410-40916-14	5/19/2021	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	0.59 U
RW6-55-S	1-2	410-40916-15	5/19/2021	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
RW6-55-S	1-2 (DUP)	410-40916-16	5/19/2021	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	5/19/2021	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
RW6-56-S	1-2	410-40916-18	5/19/2021	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
RW6-57-S	0-1	410-40916-19	5/19/2021	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
RW6-57-S	1-2	410-40916-20	5/19/2021	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	5/19/2021	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
RW6-58-S	1-2	410-40916-22	5/19/2021	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	5/19/2021	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
RW6-59-S	7-8	410-40916-24	5/19/2021	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
RW6-59-S	12-13	410-40916-25	5/19/2021	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
RW6-60-S	1-2	410-40918-19	5/21/2021	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
RW6-60-S	4-5	410-40918-20	5/21/2021	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	0.57 U	0.57 U	0.57 U	0.57 U
RW6-60-S	8-9	410-40918-21	5/21/2021	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
RW6-61-S	0-1	410-40918-22	5/21/2021	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
RW6-61-S	5-6	410-40918-23	5/21/2021	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
RW6-61-S	9-10	410-40918-24	5/21/2021	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	0.57 U	0.57 U	0.57 U	0.57 U
RW6-62-S	0-1	410-40918-25	5/21/2021	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
RW6-62-S	0-1 (DUP)	410-40918-26	5/21/2021	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
RW6-62-S	1-2	410-40918-27	5/21/2021	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	5/21/2021	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
RW6-63-S	1-2	410-40918-29	5/21/2021	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
RW6-64-S	1-2	410-40918-30	5/21/2021	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
RW6-64-S	9-10	410-40918-31	5/21/2021	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
RW6-64-S	17-18	410-40918-32	5/21/2021	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
RW6-65-S	0-1	410-40918-33	5/21/2021	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	0.59 U
RW6-65-S	1-2	410-40918-34	5/21/2021	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

AFFF APPLICATION AREAS — South Ramp at J

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	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
			Subgroup	Carboxylic Acids													Sulfonic Acids / Sulfonamides									Perfluoroalkane Sulfonamido Substances						Precursors and Replacement Compounds							
			Acronym	PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFUnA	PFDoA	PFTrDA	PFTeDA	PFHxDA	PFODA	PFBS	PFPeS	PFHxS	PFOS	PFHpS	PFNS	PFDS	PFDoS	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	120226-60-1
			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																																				
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

Subgroup: Carboxylic Acids

Area	Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	Date Sampled	PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFUnA	PFDoA	PFTrDA	PFTeDA	PFHxDA	PFODA
				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 J	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 J	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	0.40 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	1-2	410-55513-9	9/15/2021	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U	0.9	6.9	25	0.20 J	0.19 J	0.19 U	0.19 U	0.19 U
		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
	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 J	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 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.43 J	0.22 J	0.97 J	0.19 UJ	0.19 UJ	0.19 UJ
	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
AFFF APPLICATION AREAS / 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
		0-1 (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
		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
	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
		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
		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
	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
		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
	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
		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
		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
	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
		0-1 (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
		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
	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
		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
	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
		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
	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
		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
	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
		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
	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
		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
	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
		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
	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
		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
	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
		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
	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
		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
	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
		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
		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
	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
		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
	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
		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
AFFF APPLICATION AREAS / 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
		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
		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
	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
		0-1 (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
		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
	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
		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
	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
		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
	SL-08-S	0 - 1	410-104055-29	10/31/2022	0.79 U	0.97	0.39 J	0.29 J	0.48 J	0.35 J	0.34 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	SL-09-S	0-1	410-104412-1	10/31/2022	0.82 U	1.4	0.8	0.21 J	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
		0-1 (DUP)	410-104412-2	10/31/2022	0.85 U	1.7	0.98	0.26 J	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
	SL-10-S	0 - 1	410-104412-5	10/31/2022	3.80	13.0	7.2	3.9	3.1	2.7	1.2	0.24 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SL-11-S	0 - 1	410-104412-35	11/2/2022	0.85 U	1.3	0.5 J	0.56 J	0.69	1.4	0.22 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SL-12-S	0 - 1	410-104412-8	11/1/2022	1.2 J	2.9	2.2	1.9	1.8	0.85	0.23 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SL-13-S	0 - 1	410-104412-32	11/2/2022	0.88 U	1.5	0.71	0.46 J	0.65 J	1.4	0.32 J	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	SL-14-S	0 - 1	410-104412-14	11/1/2022	2.40	28.0	23.0	6.2	4.3	1.1	0.58 J	1.3	0.21 U	0.45 J	0.21 U	0.21 U	0.21 U
	SL-15-S	0-1	410-104412-11	11/1/2022	1.1 J	6.0	3.2	0.96	1.8	0.56 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SL-16-S	0-1	410-104412-29	11/2/2022	0.85 U	0.32 J	0.21 U	0.21 U	0.59 J	0.54 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SL-17-S	0-1	410-104412-17	11/1/2022	0.83 U	3.1	1.5	0.44 J	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
	SL-18-S	0-1	410-104412-20	11/1/2022	4.9 J	35.0	18.0	3.3	4.3	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U
	SL-19-S	0-1	410-104412-23	11/2/2022	0.81 U	0.39 J	0.38 J	0.23 J	0.20 U	0.20 U	0.20 U	0.21 J	0.20 U	0.75	0.20 U	0.20 U	0.20 U
	SL-20-S	0 - 1	410-104412-26	11/2/2022	0.86 U	0.39 J	0.26 J	0.24 J	0.43 J	0.29 J	0.50 J	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U

Subgroup: Sulfonic Acids / Sulfonamides

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	PFBS	PFPeS	PFHxS	PFOS	PFHpS	PFNS	PFDS	PFDoS	PFOSA
		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
SRJ-44-S	3-4	410-40916-26	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
	12-13	410-40916-27	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.54 J	0.64	3.3 J	28 J	0.29 J	0.42 J	0.54 J	0.6 J	0.7
	0-1 (DUP)	410-49501-14	0.41 U	0.28 J	1.4 J	13 J	0.2 U	0.85	0.42 J	0.39 J	0.67
	1-2	410-49501-15	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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-01-S	0-2	410-21757-1	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	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	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	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	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	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	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	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	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	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	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	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	0.4 U	0.2 U	0.20 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	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	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	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	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	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	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	1-2	410-55513-9	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
	3-4	410-55513-10	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
SP-10-S	1-2	410-55513-11	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.4 U	0.2 U	0.20 U	0.24 J	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U
	3-4	410-55663-11	0.39 UJ	0.19 UJ	0.19 UJ	1.1 J	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ
SP-21-S	1-2	410-55663-12	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	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
SRE-01-S	0-1	410-21757-12	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)	410-21757-13	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
	1-2	410-21757-14	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
SRE-02-S	0-2	410-21757-15	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
	16-18	410-21757-16	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
	29-31	410-21757-17	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
SRE-03-S	0-1	410-21757-18	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
	1-2	410-21757-19	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
SRE-04-S	0-2	410-21757-20	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	410-21757-21	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
	35-37	410-21757-22	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
SRE-06-S	0-1	410-41730-12	0.42 U	0.21 U	1.1	10	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	0-1 (DUP)	410-41730-14	0.40 U	0.20 U	1.1	16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	1-2	410-41730-13	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
SRE-07-S	0-1	410-41730-15	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
	1-2	410-41730-16	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
SRE-08-S	0-1	410-41730-17	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
	1-2	410-41730-18	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
SRE-09-S	0-1	410-41730-19	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
	1-2	410-41730-20	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
SRE-10-S	0-1	410-41730-21	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
	1-2	410-41730-22	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
SRE-11-S	0-1	410-41730-23	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	410-41730-24	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
SRE-12-S	0-1	410-41730-25	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
	1-2	410-41730-26	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
SRE-13-S	0-1	410-41730-27	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
	1-2	410-41730-28	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
SRE-14-S	0-1	410-41730-29	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
	1-2	410-41730-30	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
SRE-15-S	0-1	410-41730-31	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
	1-2	410-41730-32	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
SRE-16-S	0-1	410-41731-6	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	410-41731-7	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 (DUP)	410-41731-8	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
SRE-17-S	0-1	410-41731-9	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
	1-2	410-41731-10	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
SRE-18-S	0-1	410-41731-11	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
	1-2	410-41731-12	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
SL-01-S	0-2	410-21749-1	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
	21-23	410-21749-2	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	410-21749-3	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
SL-02-S	0-1	410-21749-4	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
	0-1 (DUP)	410-21749-5	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
	1-2	410-21749-6	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
SL-03-S	0-1	410-21749-7	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
	1-2	410-21749-8	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
SL-04-S	0-1	410-21749-9	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
	1-2	410-21749-10	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
SL-08-S	0 - 1	410-104055-29	0.40 U	0.20 U	0.20 U	1.80	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SL-09-S	0-1	410-104412-1	0.41 U	0.21 U	0.53 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	0-1 (DUP)	410-104412-2	0.42 U	0.21 U	0.65	0.26 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SL-10-S	0 - 1	410-104412-5	0.42 U	0.21 U	0.21 U	0.55 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SL-11-S	0 - 1	410-104412-35	0.43 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
SL-12-S	0 - 1	410-104412-8	0.43 U	0.21 U	0.21 U	0.35 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SL-13-S	0 - 1	410-104412-32	0.44 U	0.22 U	0.22 U	0.30 J	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
SL-14-S	0 - 1	410-104412-14	0.42 U	0.21 U	1.50	8.60	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SL-15-S	0-1	410-104412-11	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
SL-16-S	0-1	410-104412-29	0.43 U	0.21 U	0.21 U	0.92	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SL-17-S	0-1	410-104412-17	0.41 U	0.21 U	0.37 J	1.40	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SL-18-S	0-1	410-104412-20	1.20 U	0.58 U	14.00	2.10	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U
SL-19-S	0-1	410-104412-23	0.40 U	0.20 U	0.86	4.30	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SL-20-S	0 - 1	410-104412-26	0.43 U	0.22 U	0.22 U	0.46 J	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U

Subgroups: 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 FTS	6:2 FTS	8:2 FTS	10:2 FTS
		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	120226-60-1
		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
SRJ-44-S	3-4	410-40916-26	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.2 UJ	0.2 UJ	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	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 J	7	32
	0-1 (DUP)	410-49501-14	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 J	8.5	27
	1-2	410-49501-15	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	1 J	1.7 J	0.66 U
SRJ-49-G	0-1	410-49501-24	0.2 UJ	0.2 UJ	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	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-49-R	1-2	410-49501-1	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	0.63 U	0.68 J	0.63 J	0.63 U
	3-4	410-49501-2	0.19 UJ	0.19 UJ	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	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	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	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	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	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	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	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	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	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	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	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	0.61 U	0.61 U	0.61 U	0.61 U
SRJ-55-S	4-5	410-41730-9	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	2.5
	9-10	410-41730-10	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	1.8 J
	12-13	410-41730-11	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-01-S	0-2	410-21757-1	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	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	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	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	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	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	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	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	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	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	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	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	14	14	0.64 U
	3-4	410-55513-2	0.2 UJ	0.2 UJ	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	0.19 UJ	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
	3-4	410-55513-4	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
SP-7-S	1-2	410-55513-5	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	0.63 U	0.63 U	0.63 U	0.63 U
	3-4	410-55513-6	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	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
	3-4	410-55513-8	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
SP-9-S	1-2	410-55513-9	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	1.4 J	2.2
	3-4	410-55513-10	0.2 U	0.2 UJ	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
SP-10-S	1-2	410-55513-11	0.2 UJ	0.2 UJ	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	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
SP-11-S	1-2	410-55513-13	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	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	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	0.2 UJ	0.2 UJ	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	0.2 UJ	0.2 UJ	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	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	0.2 UJ	0.2 UJ	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	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
SP-15-S	1-2	410-55513-23	0.19 UJ	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
	3-4	410-55513-24	0.21 UJ	0.21 U	0.52 U	0.52 UJ	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	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	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
SP-17-S	1-2	410-55663-3	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
	1-2 (DUP)	410-55663-5	0.19 UJ	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
	3-4	410-55663-4	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	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
	3-4	410-55663-7	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	2.2
SP-19-S	1-2	410-55663-8	0.19 UJ	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
	3-4	410-55663-9	0.21 U	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
SP-20-S	1-2	410-55663-10	0.2 UJ	0.2 UJ	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	0.19 UJ	0.19 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.39 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.58 UJ	0.58 UJ	0.58 UJ	0.58 UJ
SP-21-S	1-2	410-55663-12	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	0.56 U	0.56 U	0.56 U	0.56 U
	3-4	410-55663-13	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	0.64 U	0.64 U	0.64 U	0.64 U
SRE-01-S	0-1	410-21757-12	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	2.0	0.63 J	1.1 J
SRE-12-S	0-1	410-41730-25	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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
SL-01-S	0-2	410-21749-1	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	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	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	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	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	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	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	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	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	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
SL-08-S	0 - 1	410-104055-29	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.99 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
SL-09-S	0-1	410-104412-1	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U	1.00 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)	410-104412-2	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	1.10 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
SL-10-S	0 - 1	410-104412-5	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	1.10 U	0.21 U	0.21 U	0.21 U	0.63 U	20	1.50 J	3.80
SL-11-S	0 - 1	410-104412-35	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	1.10 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
SL-12-S	0 - 1	410-104412-8	0.21 U	0.21 U	0.54 U	0.54 U	0.54 U	0.54 U	1.10 U	0.21 U	0.21 U	0.21 U	0.64 U	1.3 J	0.64 U	0.64 U
SL-13-S	0 - 1	410-104412-32	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	1.10 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
SL-14-S	0 - 1	410-104412-14	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	1.00 U	0.21 U	0.21 U	0.21 U	0.63 U	1.7 J	0.63 U	0.68 J
SL-15-S	0-1	410-104412-11	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	1.00 U	0.21 U	0.21 U	0.21 U	0.63 U	26	3.40	0.63 U
SL-16-S	0-1	410-104412-29	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U	1.10 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
SL-17-S	0-1	410-104412-17	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	1.00 U	0.21 U	0.21 U	0.21 U	0.62 U	0.76 J	0.62 U	0.62 U
SL-18-S	0-1	410-104412-20	0.58 U	0.58 U	1.50 U	1.50 U	1.50 U	1.50 U	2.90 U	0.58 U	0.58 U	0.58 U	1.80 UJ	6.5 J	1.80 UJ	1.80 U
SL-19-S	0-1	410-104412-23	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	1.00 U	0.20 U	0.20 U	0.20 U	0.60 U	0.6 U	0.60 U	0.60 U
SL-20-S	0 - 1	410-104412-26	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U	1.10 U	0.22 U	0.22 U	0.22 U	0.65 U	0.76 J	0.65 U	1.50 J

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2/16/2023

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

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 – 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
	RW15-01-S	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
	RW15-02-S	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
	RW15-02-S	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
	RW15-03-S	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
	RW15-03-S	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
	RW15-04-S	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
	RW15-18	0-1	410-85698-20	5/24/2022	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
	RW15-20	0-1	410-85698-23	5/24/2022	0.79 U	0.20 U	0.20 U	0.20 U	**0.21 J**	0.20 U	0.20 U	**0.47 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	RW15-22-S	0-1	410-85697-21	5/24/2022	0.83 U	**1.0**	**0.35 J**	**0.37 J**	**0.90**	**0.75**	**0.52 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	RW15-33-S	0-1	410-105576-14	11/10/2022	**0.97 J**	**3.50**	**1.80**	**1.10**	**0.77**	**1.40**	**0.33 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	RW15-34-S	0-1	410-105576-17	11/10/2022	0.81 U	**3.40**	**1.60**	**0.94**	**0.58 J**	**2.70**	**0.81**	**0.31 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	RW15-35-S	0-1	410-105576-20	11/10/2022	0.83 U	**0.36 J**	0.21 U	**0.21 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
	RW15-36-S	0-1	410-105576-23	11/10/2022	0.86 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	0.21 U	0.21 U	0.21 U
	RW15-37-S	0-1	410-105576-1	11/9/2022	0.87 U	0.22 U	0.22 U	0.22 U	**0.39 J**	**0.39 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	RW15-38-S	0-1	410-105576-4	11/9/2022	0.87 U	**0.33 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
	RW15-39-S	0-1	410-105576-7	11/9/2022	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
	RW15-39-S	0-1 (DUP)	410-105576-8	11/9/2022	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
	RW15-40-S	0-1	410-105576-11	11/9/2022	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
AFFF APPLICATION AREAS – 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
	R24-01-S	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
	R24-01-S	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
	R24-02-S	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
	R24-02-S	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
	R24-03-S	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
	R24-03-S	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
	R24-04-S	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
	R24-04-S	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
AFFF APPLICATION AREAS – 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
	FF-1-5	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 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	FF-2-5	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**	**11.0**	**1.70**	**0.62**	**0.23 J**	0.20 U	0.20 U	0.20 U
	FF-3-5	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
	FF-4-5	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
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
	WL-08-S	0-1	410-65965-3	12/6/2021	0.87 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	**0.33 J**	0.90 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	WL-08-S	1-2	410-65965-4	12/6/2021	0.83 U	**0.36 J**	0.21 U	**0.25 J**	**0.23 J**	**0.29 J**	0.21 U	**0.34 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	WL-08-S	3-4	410-65965-5	12/6/2021	0.82 U	0.20 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 U	0.20 U
	WL-09-S	0-1	410-65965-6	12/6/2021	0.84 U	0.21 U	0.21 U	0.21 U	**0.22 J**	**0.63**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	WL-09-S	1-2	410-65965-7	12/6/2021	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	**0.23 J**	**0.29 J**
	WL-10-S	0-1	410-65965-8	12/6/2021	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.21 J**	**0.62**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	WL-10-S	1 - 2	410-65965-9	12/6/2021	0.84 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.29 J**	**0.31 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	WL-10-S	1 - 2 (DUP)	410-65965-10	12/6/2021	0.84 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.22 J**	**0.24 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	WL-11-S	0-1	410-65965-11	12/6/2021	0.84 U	**0.23 J**	0.21 U	0.21 U	**0.30 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
	WL-11-S	1-2	410-65965-12	12/6/2021	0.78 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	**0.61**	**0.21 J**	**0.23 J**	0.19 U	0.19 U	0.19 U
	WL-12-S	0-1	410-65965-14	12/6/2021	0.78 U	0.20 U	0.20 U	0.20 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
	WL-12-S	1-2	410-65965-15	12/6/2021	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
	WL-13-S	0-1	410-65965-17	12/6/2021	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
	WL-13-S	1-2	410-65965-18	12/6/2021	0.86 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	**0.27 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	WL-14-S	0-1	410-104055-3	10/31/2022	**1.0 J**	**1.7**	**0.69**	**0.60 J**	**0.93**	**0.45 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	WL-14-S	1-2	410-104055-4	10/31/2022	0.81 U	**1.2**	**1.3**	**0.48 J**	**3.9**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	WL-14-S	3-4	410-104055-5	10/31/2022	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
	WL-15-S	0 - 1	410-104055-6	10/31/2022	**1.1 J**	**1.3**	**0.67**	**0.73**	**1.4**	**0.55 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	WL-15-S	1-2	410-104055-7	10/31/2022	**1.5 J**	**2.6**	**2.0**	**1.6**	**1.3**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	WL-15-S	3-4	410-104055-8	10/31/2022	0.78 U	**0.21 J**	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	0.2 U	0.20 U
	WL-16-S	0-1	410-104055-9	10/31/2022	0.78 U	**0.64**	**0.39 J**	**0.26 J**	**0.48 J**	**0.60**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	WL-16-S	1-2	410-104055-10	10/31/2022	**1.0 J**	**1.7**	**1.2**	**1.0**	**1.5**	**0.36 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	WL-16-S	3-4	410-104055-11	10/31/2022	0.78 U	**0.21 J**	0.19 U	**0.26 J**	**0.33 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
	WL-17-S	0-1	410-104055-12	10/31/2022	0.83 U	**1.2**	**1.1**	**1.0**	**1.1**	**0.69**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	WL-17-S	1-2	410-104055-13	10/31/2022	0.86 U	**1.0**	**1.0**	**1.6**	**1.2**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	WL-17-S	1-2 (DUP)	410-104055-14	10/31/2022	0.79 U	**1.1**	**0.98**	**1.9**	**1.0**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	WL-17-S	3-4	410-104055-15	10/31/2022	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
	WL-18-S	0-1	410-104055-16	10/31/2022	0.83 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.30 J**	**0.50 J**	**0.42 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	WL-18-S	1-2	410-104055-17	10/31/2022	0.92 U	0.23 U	0.23 U	0.23 U	0.23 U	**0.35 J**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	WL-18-S	3-4	410-104055-18	10/31/2022	0.78 U	0.20 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
	WL-19-S	0-1	410-104055-20	10/31/2022	0.80 U	0.20 U	0.20 U	0.20 U	**0.36 J**	**0.27 J**	0.20 U	**0.21 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Additional Investigation Areas – 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
	AG-01	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
	AG-01	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
	AG-01	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
	AG-01	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
	AG-01	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
	AG-01	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
	AG-01	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
	AG-OF	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
Additional Investigation Areas – 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
Additional Investigation Areas – 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
Additional Investigation Areas – 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
	DC-01-S	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
	DC-02-S	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
Additional Investigation Areas – Taxiway G	TWG-01	0-1	410-82127-1	4/28/2022	0.86 U	**0.59 J**	**0.39 J**	**0.27 J**	**0.38 J**	0.21 U	0.21 U	**0.21 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	TWG-02	0-1	410-82127-4	4/28/2022	0.79 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	0.20 U
	TWG-03	0-1	410-82127-7	4/28/2022	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
	TWG-03	0-1 (DUP)	410-82127-8	4/28/2022	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
	TWG-04	0-1	410-82127-11	4/28/2022	0.79 U	0.20 U	0.20 U	0.20 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
	TWG-05	0-1	410-82127-14	4/28/2022	0.80 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	0.20 U	0.20 U	0.20 U	0.20 U
	TWG-06	0-1	410-82127-17	4/28/2022	0.79 U	0.20 U	0.20 U	0.20 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
Additional Investigation Areas – Sun Island Area	NOR-12	0-1	410-85697-5	5/23/2022	0.92 U	**0.90**	**0.62 J**	**0.54 J**	**0.76**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	NOR-12	1-2	410-85697-6	5/23/2022	0.83 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ
	NOR-13	0-1	410-85697-8	5/23/2022	**1.7 J**	**3.4**	**2.5**	**2.1 J**	**0.71 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
	NOR-13	1-2	410-85697-9	5/23/2022	0.83 UJ	**1.2 J**	**1.5 J**	**0.89 J**	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	**0.29 J**	**0.32 J**
	NOR-13	3-4	410-85697-10	5/23/2022	0.79 UJ	0.2 UJ	0.2 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-14	0-1	410-85697-11	5/23/2022	**1.7 J**	**3.4**	**1.9**	**3.1**	**1.1**	**0.40 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	NOR-14	1-2	410-85697-12	5/23/2022	0.99 UJ	**1.2 J**	**0.92 J**	**1.3 J**	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ
	NOR-14	3-4	410-85697-13	5/23/2022	0.8 UJ	**0.74 J**	**0.65 J**	**1.1 J**	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-14-S	4-6	410-105576-26	11/11/2022	0.77 U	**0.59**	**0.68**	**0.73**	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
	NOR-14-S	6-8	410-105576-27	11/11/2022	0.79 UJ	**0.44 J**	**0.49 J**	**0.49 J**	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-14-S	8-10	410-105576-28	11/11/2022	0.79 UJ	**0.48 J**	**0.78 J**	**1.0 J**	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-14-S	15-20	410-105576-29	11/11/2022	0.79 UJ	**0.60 J**	**0.47 J**	**0.57 J**	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-14-S	20-30	410-106099-5	11/14/2022	0.78 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ
	NOR-14-S	30-40	410-106099-6	11/14/2022	0.81 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-14-S	40-50	410-106099-7	11/14/2022	0.79 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-15	0-1	410-85697-14	5/23/2022	**1.9 J**	**3.0**	**1.9**	**2.4**	**0.59 J**	**0.52 J**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
	NOR-15	0-1 (DUP)	410-85697-15	5/23/2022	**1.3 J**	**2.1**	**1.0**	**0.85**	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
	NOR-15	1-2	410-85697-16	5/23/2022	0.76 UJ	**0.69 J**	**1.3 J**	**2.4 J**	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ
	NOR-15	3-4	410-85697-17	5/23/2022	0.79 UJ	**0.63 J**	**0.83 J**	**1.0 J**	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-15-S	4-6	410-106099-8	11/14/2022	0.83 U	**1.8**	**1.5**	**1.3**	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
	NOR-15-S	6-8	410-106099-9	11/14/2022	0.75 U	**0.64**	**0.7**	**1.3**	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
	NOR-15-S	8-10	410-106099-10	11/14/2022	0.77 U	**0.38 J**	**0.43 J**	**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	0.19 U
	NOR-15-S	15-20	410-106099-11	11/14/2022	0.76 U	**1.4**	**1.3**	**1.2**	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
	NOR-15-S	20-30	410-106099-12	11/14/2022	0.76 UJ	**0.37 J**	**0.59 J**	**0.7 J**	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ
	NOR-15-S	30-40	410-106099-13	11/14/2022	0.78 UJ	**0.28 J**	**0.33 J**	**0.41 J**	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ
	NOR-15-S	40-50	410-106099-14	11/14/2022	0.81 UJ	**0.23 J**	**0.44 J**	**0.33 J**	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-15-S	50-55	410-106099-15	11/14/2022	0.89 UJ	**0.48 J**	**0.42 J**	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ
	NOR-16	0-1	410-85697-18	5/23/2022	0.84 U	**1.5**	0.21 U	0.21 U H	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
	NOR-17-S	0-1	410-106099-1	11/14/2022	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
	NOR-18-S	0-1	410-105576-30	11/11/2022	0.84 U	**1.7**	**0.89**	**0.69**	**0.79**	**0.80**	**0.36 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	NOR-18-S	1-2	410-105576-31	11/11/2022	0.79 UJ	**0.84 J**	**0.81 J**	**1.0 J**	**0.28 J**	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-18-S	3-4	410-105576-32	11/11/2022	0.79 UJ	0.20 UJ	**0.23 J**	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ
	NOR-19-S	0-1	410-105576-33	11/11/2022	0.87 U	**0.85**	**0.40 J**	**0.42 J**	**0.60 J**	**0.62 J**	**0.27 J**	**0.26 J**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
	NOR-19-S	1-2	410-105576-34	11/11/2022	0.84 UJ	**0.65 J**	**0.42 J**	**0.40 J**	**0.48 J**	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ
	NOR-19-S	1-2 (DUP)	410-105576-35	11/11/2022	0.87 UJ	**0.73 J**	**0.41 J**	**0.36 J**	**0.59 J**	**0.25 J**	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ
	NOR-19-S	3-4	410-105576-36	11/11/2022	0.79 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ

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	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA
Subgroup			Sulfonic Acids / Sulfonamides									Perfluoroalkane Sulfonamido Substances					
Analyte			Perfluorobutanesulfonic acid	Perfluoropentanesulfonate	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid	Perfluoroheptanesulfonic acid	Perfluorononanesulfonic acid	Perfluorodecanesulfonic acid	Perfluorododecanesulfonic acid	Perfluorooctane-sulfonamide	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA
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	2991-50-6	2355-31-9	24448-09-7	31506-32-8	1691-99-2	4151-50-2
S-1/GW-1 (ng/g)			na	na	0.30	2.0	na	na	na	na	na	na	na	na	na	na	na
S-1/GW-3 (ng/g)			na	na	300	300	na	na	na	na	na	na	na	na	na	na	na
S-2/S-3/GW-3 (ng/g)			na	na	400	400	na	na	na	na	na	na	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	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U
RW15-01-S	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	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 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	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U
RW15-02-S	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	0.22 U	0.22 U	0.56 U	0.56 U	0.56 U	0.56 U
RW15-02-S	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	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 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	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U
RW15-03-S	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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
RW15-03-S	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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 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	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U
RW15-04-S	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	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U
RW15-18	0-1	410-85698-20	0.43 U	0.22 U	0.22 U	**0.66**	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
RW15-20	0-1	410-85698-23	0.40 U	0.20 U	**0.79**	**7.8**	0.20 U	0.20 U	**0.55 J**	**0.49 J**	**0.38 J**	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U
RW15-22-S	0-1	410-85697-21	0.41 U	0.21 U	0.21 U	**6.50**	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
RW15-33-S	0-1	410-105576-14	0.43 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	0.53 U	0.53 U	0.53 U	0.53 U
RW15-34-S	0-1	410-105576-17	0.41 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 U	0.51 U	0.51 U	0.51 U	0.51 U
RW15-35-S	0-1	410-105576-20	0.42 U	0.21 U	0.21 U	**0.53 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
RW15-36-S	0-1	410-105576-23	0.43 U	0.21 U	0.21 U	**1.20**	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
RW15-37-S	0-1	410-105576-1	0.44 U	0.22 U	0.22 U	**0.55 J**	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 UJ	0.55 U	0.55 UJ
RW15-38-S	0-1	410-105576-4	0.43 U	0.22 U	0.22 U	**0.63 J**	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
RW15-39-S	0-1	410-105576-7	0.43 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	0.53 U	0.53 U	0.53 U	0.53 U
RW15-39-S	0-1 (DUP)	410-105576-8	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	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U
RW15-40-S	0-1	410-105576-11	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	0.20 U	0.50 U	0.50 U	0.50 U	0.50 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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
R24-01-S	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	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U
R24-01-S	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	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 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	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U
R24-02-S	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	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U
R24-02-S	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	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
R24-03-S	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	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U
R24-03-S	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	0.21 U	0.21 U	0.54 U	0.54 U	0.54 U	0.54 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	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U
R24-04-S	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	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U
R24-04-S	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	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 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	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U
FF-1-5	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	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 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	0.20 U	0.20 UJ	0.51 U	0.51 U	0.51 U	0.51 U
FF-2-5	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	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
FF-3-5	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	0.21 U	0.21 UJ	0.53 U	0.53 U	0.53 U	0.53 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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
FF-4-5	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	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 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	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 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	0.22 U	0.22 U	0.55 U	0.55 U	0.55 U	0.55 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	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 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	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 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	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 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	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 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	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U
WL-08-S	0-1	410-65965-3	0.43 U	0.22 U	0.22 U	**0.66**	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
WL-08-S	1-2	410-65965-4	0.42 U	0.21 U	0.21 U	**2.5**	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
WL-08-S	3-4	410-65965-5	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
WL-09-S	0-1	410-65965-6	0.42 U	0.21 U	0.21 U	**3.1**	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
WL-09-S	1-2	410-65965-7	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	**0.63 J**	**0.74 J**	0.48 U	0.48 U	0.48 U	0.48 U
WL-10-S	0-1	410-65965-8	0.40 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	**0.22 J**	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
WL-10-S	1 - 2	410-65965-9	0.42 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	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U
WL-10-S	1 - 2 (DUP)	410-65965-10	0.42 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	0.53 U	0.53 U	0.53 U	0.53 U
WL-11-S	0-1	410-65965-11	0.42 U	0.21 U	0.21 U	**4.2**	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
WL-11-S	1-2	410-65965-12	0.39 U	0.19 U	0.19 U	**0.20 J**	0.19 U	0.19 U	**0.22 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U
WL-12-S	0-1	410-65965-14	0.39 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	0.49 U	0.49 U	0.49 U	0.49 U
WL-12-S	1-2	410-65965-15	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
WL-13-S	0-1	410-65965-17	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	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U
WL-13-S	1-2	410-65965-18	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
WL-14-S	0-1	410-104055-3	0.41 U	0.21 U	**0.39 J**	**1.6**	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
WL-14-S	1-2	410-104055-4	0.41 U	0.20 U	**0.36 J**	**1.0**	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
WL-14-S	3-4	410-104055-5	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
WL-15-S	0 - 1	410-104055-6	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	0.22 U	0.54 U	0.54 U	0.54 U	0.54 U
WL-15-S	1-2	410-104055-7	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	0.53 U	0.53 U	0.53 U	0.53 U
WL-15-S	3-4	410-104055-8	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
WL-16-S	0-1	410-104055-9	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 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U
WL-16-S	1-2	410-104055-10	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	0.21 U	0.21 U	0.53 U	0.53 U	0.53 U	0.53 U
WL-16-S	3-4	410-104055-11	0.39 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	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U
WL-17-S	0-1	410-104055-12	0.41 U	0.21 U	0.21 U	**19**	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
WL-17-S	1-2	410-104055-13	0.43 U	0.22 U	**0.80**	**1.7**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.54 U	0.54 U	0.54 U	0.54 U
WL-17-S	1-2 (DUP)	410-104055-14	0.40 U	0.20 U	**0.90**	**1.9**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.50 U	0.50 U	0.50 U	0.50 U
WL-17-S	3-4	410-104055-15	0.42 U	0.21 U	0.21 U	**0.6 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
WL-18-S	0-1	410-104055-16	0.41 U	0.21 U	0.21 U	**0.74**	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
WL-18-S	1-2	410-104055-17	0.46 U	0.23 U	0.23 U	**1.3**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 UJ	0.23 UJ	0.57 U	0.57 U	0.57 U	0.57 U
WL-18-S	3-4	410-104055-18	0.39 U	0.20 U	0.20 U	**0.58 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U
WL-19-S	0-1	410-104055-20	0.40 U	0.20 U	0.20 U	**0.85**	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
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	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U
AG-01	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	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 U
AG-01	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	0.20 U	0.2 U	0.51 U	0.51 U	0.51 U	0.51 U
AG-01	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	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	0.48 U
AG-01	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	0.20 U	0.2 U	0.49 U	0.49 U	0.49 U	0.49 U
AG-01	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	0.16 U	0.16 U	0.40 U	0.40 U	0.40 U	0.40 U
AG-01	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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
AG-01	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	0.23 U	0.23 U	0.57 U	0.57 U	0.57 U	0.57 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	0.24 U	0.24 U	0.60 U	0.60 U	0.60 U	0.60 U
AG-OF	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	0.24 U	0.24 U	0.59 U	0.59 U	0.59 U	0.59 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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 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	0.22 U	0.22 U	0.54 U	0.54 U	0.54 U	0.54 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	0.21 U	0.21 U	0.51 U	0.51 U	0.51 U	0.51 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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
DC-01-S	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	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
DC-02-S	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	0.19 U	0.19 U	0.49 U	0.49 U	0.49 U	0.49 U
TWG-01	0-1	410-82127-1	0.43 U	0.21 U	**0.22 J**	**1.3**	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
TWG-02	0-1	410-82127-4	0.39 U	0.20 U	0.20 U	**3.6**	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
TWG-03	0-1	410-82127-7	0.43 U	0.22 U	0.22 U	**1.1 J**	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
TWG-03	0-1 (DUP)	410-82127-8	0.42 U	0.21 U	0.21 U	**0.75 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
TWG-04	0-1	410-82127-11	0.40 U	0.20 U	0.20 U	**0.96**	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
TWG-05	0-1	410-82127-14	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	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U
TWG-06	0-1	410-82127-17	0.39 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	0.20 U	0.20 U	0.49 U	0.49 U	0.49 U	0.49 U
NOR-12	0-1	410-85697-5	0.46 U	0.23 U	0.23 U	**0.41 J**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.57 U	0.57 U	0.57 U	0.57 U
NOR-12	1-2	410-85697-6	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.52 UJ	0.52 UJ	0.52 UJ	0.52 UJ
NOR-13	0-1	410-85697-8	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	0.21 U	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U
NOR-13	1-2	410-85697-9	0.41 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.52 UJ	0.52 UJ	0.52 UJ	0.52 UJ
NOR-13	3-4	410-85697-10	0.39 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.49 UJ	0.49 UJ	0.49 UJ	0.49 UJ
NOR-14	0-1	410-85697-11	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	0.20 U	0.20 U	0.51 U	0.51 U	0.51 U	0.51 U
NOR-14	1-2	410-85697-12	0.5 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.62 UJ	0.62 UJ	0.62 UJ	0.62 UJ
NOR-14	3-4	410-85697-13	0.4 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.5 UJ
NOR-14-S	4-6	410-105576-26	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 UJ	0.19 UJ	0.48 U	0.48 U	0.48 U	0.48 U
NOR-14-S	6-8	410-105576-27	0.39 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.49 UJ	0.49 UJ	0.49 UJ	0.49 UJ
NOR-14-S	8-10	410-105576-28	0.4 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.49 UJ	0.49 UJ	0.49 UJ	0.49 UJ
NOR-14-S	15-20	410-105576-29	0.4 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.49 UJ	0.49 UJ	0.49 UJ	0.49 UJ
NOR-14-S	20-30	410-106099-5	0.39 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.49 UJ	0.49 UJ	0.49 UJ	0.49 UJ
NOR-14-S	30-40	410-106099-6	0.40 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.51 UJ	0.51 UJ	0.51 UJ	0.51 UJ
NOR-14-S	40-50	410-106099-7	0.40 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.5 UJ
NOR-15	0-1	410-85697-14	0.5 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.63 U	0.63 U	0.63 U	0.63 U
NOR-15	0-1 (DUP)	410-85697-15	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
NOR-15	1-2	410-85697-16	0.38 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ
NOR-15	3-4	410-85697-17	0.4 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.5 UJ
NOR-15-S	4-6	410-106099-8	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 UJ	0.52 U	0.52 U	0.52 U	0.52 U
NOR-15-S	6-8	410-106099-9	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 UJ	0.47 U	0.47 U	0.47 U	0.47 U
NOR-15-S	8-10	410-106099-10	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
NOR-15-S	15-20	410-106099-11	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	0.19 U	0.19 UJ	0.47 U	0.47 U	0.47 U	0.47 U
NOR-15-S	20-30	410-106099-12	0.38 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ
NOR-15-S	30-40	410-106099-13	0.39 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.48 UJ	0.48 UJ	0.48 UJ	0.48 UJ
NOR-15-S	40-50	410-106099-14	0.41 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.51 UJ	0.51 UJ	0.51 UJ	0.51 UJ
NOR-15-S	50-55	410-106099-15	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.56 UJ	0.56 UJ	0.56 UJ	0.56 UJ
NOR-16	0-1	410-85697-18	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
NOR-17-S	0-1	410-106099-1	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
NOR-18-S	0-1	410-105576-30	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
NOR-18-S	1-2	410-105576-31	0.39 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.49 UJ	0.49 UJ	0.49 UJ	0.49 UJ
NOR-18-S	3-4	410-105576-32	0.40 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.49 UJ	0.49 UJ	0.49 UJ	0.49 UJ
NOR-19-S	0-1	410-105576-33	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	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U
NOR-19-S	1-2	410-105576-34	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.52 UJ	0.52 UJ	0.52 UJ	0.52 UJ
NOR-19-S	1-2 (DUP)	410-105576-35	0.43 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ
NOR-19-S	3-4	410-105576-36	0.39 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.49 UJ	0.49 UJ	0.49 UJ	0.49 UJ

Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2 FTS	6:2 FTS	8:2 FTS	10:2 FTS
Subgroup			Precursors and Replacement Compounds							
Analyte			HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2-Fluorotelomersulfonic acid	6:2-Fluorotelomersulfonic acid	8:2-Fluorotelomersulfonic acid	10:2 Fluorotelomersulfonic acid
CAS No.			13252-13-6	919005-14-4	756426-58-1	763051-92-9	757124-72-4	27619-97-2	39108-34-4	120226-60-1
S-1/GW-1 (ng/g)			na	na	na	na	na	na	na	na
S-1/GW-3 (ng/g)			na	na	na	na	na	na	na	na
S-2/S-3/GW-3 (ng/g)			na	na	na	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	0.65 U	0.65 U	0.65 U	0.65 U
RW15-01-S	1-2	410-21749-12	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	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW15-02-S	0-1 (DUP)	410-21749-14	0.45 U	0.22 U	0.22 U	0.22 U	0.67 U	0.67 U	0.67 U	0.67 U
RW15-02-S	1-2	410-21749-15	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	0.44 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
RW15-03-S	16-18	410-21749-17	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
RW15-03-S	30-32	410-21749-18	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	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
RW15-04-S	1-2	410-21749-20	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
RW15-18	0-1	410-85698-20	1.10 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
RW15-20	0-1	410-85698-23	0.99 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
RW15-22-S	0-1	410-85697-21	1.00 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
RW15-33-S	0-1	410-105576-14	1.10 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.87 J	0.64 U
RW15-34-S	0-1	410-105576-17	1.00 U	0.20 U	0.20 U	0.20 U	0.61 U	**2.70**	**1.40 J**	**0.91 J**
RW15-35-S	0-1	410-105576-20	1.00 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
RW15-36-S	0-1	410-105576-23	1.10 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW15-37-S	0-1	410-105576-1	1.10 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
RW15-38-S	0-1	410-105576-4	1.10 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
RW15-39-S	0-1	410-105576-7	1.10 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW15-39-S	0-1 (DUP)	410-105576-8	1.10 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
RW15-40-S	0-1	410-105576-11	1.00 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
R24-01-S	0-2	410-21766-24	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
R24-01-S	22-24	410-21766-25	0.40 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
R24-01-S	46-48	410-21766-26	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	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
R24-02-S	21-23	410-21766-11	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
R24-02-S	46-48	410-21766-23	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	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
R24-03-S	21-23	410-21766-5	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
R24-03-S	46-48	410-21766-6	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	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
R24-04-S	22-24	410-21766-8	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
R24-04-S	46-48	410-21766-9	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	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	**2.00 U**
FF-1-5	2-3	410-49518-3	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	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	**2.00 U**
FF-2-5	2-3	410-49518-5	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	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	**0.72 J**	**34.00**	**8.30**
FF-3-5	2-3	410-49518-7	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	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	**48.00**	**5.40**
FF-4-5	2-3	410-49518-9	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	0.42 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	0.44 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	0.43 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	0.43 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	0.41 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	0.43 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	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
WL-08-S	0-1	410-65965-3	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
WL-08-S	1-2	410-65965-4	0.42 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
WL-08-S	3-4	410-65965-5	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
WL-09-S	0-1	410-65965-6	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
WL-09-S	1-2	410-65965-7	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
WL-10-S	0-1	410-65965-8	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
WL-10-S	1 - 2	410-65965-9	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
WL-10-S	1 - 2 (DUP)	410-65965-10	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
WL-11-S	0-1	410-65965-11	0.42 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
WL-11-S	1-2	410-65965-12	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
WL-12-S	0-1	410-65965-14	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
WL-12-S	1-2	410-65965-15	0.38 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
WL-13-S	0-1	410-65965-17	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
WL-13-S	1-2	410-65965-18	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
WL-14-S	0-1	410-104055-3	1.00 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
WL-14-S	1-2	410-104055-4	1.00 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
WL-14-S	3-4	410-104055-5	0.94 U	0.19 U	0.19 U	0.19 U	0.56 U	0.56 U	0.56 U	0.56 U
WL-15-S	0 - 1	410-104055-6	1.1 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
WL-15-S	1-2	410-104055-7	1.1 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
WL-15-S	3-4	410-104055-8	0.98 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
WL-16-S	0-1	410-104055-9	0.98 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
WL-16-S	1-2	410-104055-10	1.1 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
WL-16-S	3-4	410-104055-11	0.97 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
WL-17-S	0-1	410-104055-12	1.0 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
WL-17-S	1-2	410-104055-13	1.1 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
WL-17-S	1-2 (DUP)	410-104055-14	0.99 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
WL-17-S	3-4	410-104055-15	1.00 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
WL-18-S	0-1	410-104055-16	1.00 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
WL-18-S	1-2	410-104055-17	1.1 U	0.23 U	0.23 U	0.23 U	0.69 U	0.69 U	0.69 U	0.69 U
WL-18-S	3-4	410-104055-18	0.98 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
WL-19-S	0-1	410-104055-20	1.00 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
AG-01	0-2	410-22051-1	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
AG-01	6-8	410-22051-2	0.41 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
AG-01	6-8 (DUP)	410-22051-3	0.41 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
AG-01	11-13	410-22051-4	0.38 U	0.19 U	0.19 U	0.19 U	0.57 U	0.57 U	0.57 U	0.57 U
AG-01	16-18	410-22051-5	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
AG-01	21-23	410-22051-6	0.32 U	0.16 U	0.16 U	0.16 U	0.48 U	0.48 U	0.48 U	0.48 U
AG-01	26-28	410-22051-7	0.40 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
AG-01	33-35	410-22051-8	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	0.48 U	0.24 U	0.24 U	0.24 U	0.72 U	0.72 U	0.72 U	0.72 U
AG-OF	1-2	410-22051-10	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	0.40 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	0.43 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	0.41 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	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
DC-01-S	1-2	410-37210-20	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	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
DC-02-S	1-2	410-37210-22	0.39 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
TWG-01	0-1	410-82127-1	0.43 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
TWG-02	0-1	410-82127-4	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
TWG-03	0-1	410-82127-7	0.43 U	0.22 U	0.22 U	0.22 U	0.65 U	0.65 U	0.65 U	0.65 U
TWG-03	0-1 (DUP)	410-82127-8	0.42 U	0.21 U	0.21 U	0.21 U	0.64 U	0.64 U	0.64 U	0.64 U
TWG-04	0-1	410-82127-11	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
TWG-05	0-1	410-82127-14	0.40 U	0.20 U	0.20 U	0.20 U	0.60 U	0.60 U	0.60 U	0.60 U
TWG-06	0-1	410-82127-17	0.39 U	0.20 U	0.20 U	0.20 U	0.59 U	0.59 U	0.59 U	0.59 U
NOR-12	0-1	410-85697-5	1.1 U	0.23 U	0.23 U	0.23 U	0.69 U	0.69 U	0.69 U	0.69 U
NOR-12	1-2	410-85697-6	1 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.63 UJ	0.63 UJ	0.63 UJ	0.63 UJ
NOR-13	0-1	410-85697-8	1 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
NOR-13	1-2	410-85697-9	1 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.62 UJ	0.62 UJ	0.62 UJ	0.62 UJ
NOR-13	3-4	410-85697-10	0.98 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.59 UJ	0.59 UJ	0.59 UJ	0.59 UJ
NOR-14	0-1	410-85697-11	1 U	0.20 U	0.20 U	0.20 U	0.61 U	0.61 U	0.61 U	0.61 U
NOR-14	1-2	410-85697-12	1.2 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.74 UJ	**9.9 J**	0.74 UJ	0.74 UJ
NOR-14	3-4	410-85697-13	1 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.6 UJ	**27 J**	0.6 UJ	0.6 UJ
NOR-14-S	4-6	410-105576-26	0.96 U	0.19 U	0.19 U	0.19 U	0.58 U	**34**	0.58 U	0.58 U
NOR-14-S	6-8	410-105576-27	0.99 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.59 UJ	**25 J**	0.59 UJ	0.59 UJ
NOR-14-S	8-10	410-105576-28	0.99 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.59 UJ	**47 J**	0.59 UJ	0.59 UJ
NOR-14-S	15-20	410-105576-29	0.99 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.59 UJ	**17 J**	0.59 UJ	0.59 UJ
NOR-14-S	20-30	410-106099-5	0.97 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.58 UJ	0.58 UJ	0.58 UJ	0.58 UJ
NOR-14-S	30-40	410-106099-6	1.0 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.61 UJ	0.61 UJ	0.61 UJ	0.61 UJ
NOR-14-S	40-50	410-106099-7	0.99 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.59 UJ	0.59 UJ	0.59 UJ	0.59 UJ
NOR-15	0-1	410-85697-14	1.3 U	0.25 U	0.25 U	0.25 U	0.75 U	0.75 U	0.75 U	0.75 U
NOR-15	0-1 (DUP)	410-85697-15	1.0 U	0.21 U	0.21 U	0.21 U	0.62 U	0.62 U	0.62 U	0.62 U
NOR-15	1-2	410-85697-16	0.95 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.57 UJ	**91 J**	0.57 UJ	0.57 UJ
NOR-15	3-4	410-85697-17	0.99 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.6 UJ	**25 J**	0.6 UJ	0.6 UJ
NOR-15-S	4-6	410-106099-8	1 U	0.21 U	0.21 U	0.21 U	0.62 U	**26**	0.62 U	0.62 U
NOR-15-S	6-8	410-106099-9	0.94 U	0.19 U	0.19 U	0.19 U	0.56 U	**22**	0.56 U	0.56 U
NOR-15-S	8-10	410-106099-10	0.96 U	0.19 U	0.19 U	0.19 U	0.58 U	**8.7**	0.58 U	0.58 U
NOR-15-S	15-20	410-106099-11	0.95 U	0.19 U	0.19 U	0.19 U	0.57 U	**26**	0.57 U	0.57 U
NOR-15-S	20-30	410-106099-12	0.95 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.57 UJ	**1.6 J**	0.57 UJ	0.57 UJ
NOR-15-S	30-40	410-106099-13	0.97 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.58 UJ	**0.83 J**	0.58 UJ	0.58 UJ
NOR-15-S	40-50	410-106099-14	1.0 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.61 UJ	0.61 UJ	0.61 UJ	0.61 UJ
NOR-15-S	50-55	410-106099-15	1.1 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.67 UJ	0.67 UJ	0.67 UJ	0.67 UJ
NOR-16	0-1	410-85697-18	1.0 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	0.63 U
NOR-17-S	0-1	410-106099-1	0.96 U	0.19 U	0.19 U	0.19 U	0.58 U	0.58 U	0.58 U	0.58 U
NOR-18-S	0-1	410-105576-30	1.1 U	0.21 U	0.21 U	0.21 U	0.63 U	0.63 U	0.63 U	**0.63**
NOR-18-S	1-2	410-105576-31	0.99 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.59 UJ	0.59 UJ	0.59 UJ	0.59 UJ
NOR-18-S	3-4	410-105576-32	0.99 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.59 UJ	0.59 UJ	0.59 UJ	0.59 UJ
NOR-19-S	0-1	410-105576-33	1.1 U	0.22 U	0.22 U	0.22 U	0.66 U	0.66 U	0.66 U	0.66 U
NOR-19-S	1-2	410-105576-34	1.0 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.63 UJ	0.63 UJ	0.63 UJ	0.63 UJ
NOR-19-S	1-2 (DUP)	410-105576-35	1.1 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.65 UJ	0.65 UJ	0.65 UJ	0.65 UJ
NOR-19-S	3-4	410-105576-36	0.99 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.59 UJ	0.59 UJ	0.59 UJ	0.59 UJ

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 (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnA)	Perfluorododecanoic acid (PFDoA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptanesulfonic Acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorooctanesulfonamide (FOSA)	N-methylperfluorooctanesulfonamide (NMeFOSA)	N-ethylperfluorooctanesulfonamide (NEtFOSA)	N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	Perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	Perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Hexafluoropropylene oxide dimer acid (HFPO-DA)	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	Perfluoro-3-methoxypropanoic acid (PFMPA)	Perfluoro-4-methoxybutanoic acid (PFMBA)	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
			Acronym	PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFUnA	PFDoA	PFTrDA	PFTeDA	PFBS	PFPeS	PFHxS	PFHpS	PFOS	PFDS	FOSA	NMeFOSAA	NEtFOSAA	NMeFOSE	NEtFOSE	NMeFOSE	NEtFOSE	HFPODA	DONA	PFMPA	PFMBA	NFDHA	9Cl-PF3ONS	11Cl-PF3OUdS
			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	1763-23-1	375-73-5	2706-91-4	355-46-4	1763-23-1	335-77-3	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	377-73-1	863090-89-5	151772-58-6	763051-92-9	756426-58-1
Sample Location ID	Sample Depth Interval (ft bgs)	Laboratory ID	S-1/GW-1 (ng/g)	ns	ns	ns	0.50	0.72	0.32	0.30	ns	ns	ns	ns	ns	ns	ns	ns	0.30	2.0	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
			S-1/GW-3 (ng/g)	ns	ns	ns	300	300	300	300	ns	ns	ns	ns	ns	ns	ns	ns	300	300	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
			S-2/S-3/ GW-3 (ng/g)	ns	ns	ns	400	400	400	400	ns	ns	ns	ns	ns	ns	ns	ns	400	400	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
			Date Sampled																																			

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
H = Sample was prepared or analyzed beyond the specified hold time

Notes:
Bold font indicates compound detected above the MDL.
Green shading indicates detected concentration meets or exceeds S-1/GW-1.
YOST Black shading with white font represents concentrations greater than 10 times the S-1/GW-1 criteria.
Red shading with black font represents concentrations meet or exceed S-1/S-2/S-3/GW-3 criteria.
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

Sample Location ID	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 aci	Perfluorohexadecanoic aci	Perfluorooctadecanoic aci
		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
		RCGW-1 (ng/L)	na	na	na	20	20	20	20	na	na	na	na	na	na
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
	410-67474-1	12/9/2021	4.6 U	1.8 UJ	3.1	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	2.8 U
	410-67474-2 (DUP)	12/9/2021	4.6 U	1.8 UJ	3.2	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
	410-108758-6	12/7/2022	4.5 U	1.8 U	3.8	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
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
	410-67474-4	12/16/2021	4.2 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	2.5 UJ	2.5 UJ
	410-109302-11	12/14/2022	4.1 U	1.7 U	1.7 U	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
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
	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
	410-67474-3	12/15/2021	4.3 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	2.6 UJ	2.6 UJ
	410-109302-7	12/13/2022	4.5 U	1.8 U	1.8 U	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
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	-	-
	410-67474-5	12/9/2021	160	650 J	470	330	280	94	5.0	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
	410-109302-5	12/13/2022	100	450	300 J	430 J	160	140	12	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U
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
	410-67474-6	12/15/2021	4.7 J	12 J	16 J	6.7 J	17 J	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	2.6 UJ	2.6 UJ
	410-109302-8	12/13/2022	5.7	19	9.8	3.1	6.7	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.5 U	2.5 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	-	-
	410-67474-7	12/14/2021	5.6	9.5	9.3	8.9	25	2.6	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
	410-108758-4	12/6/2022	4.3 U	6.6	7.7	9.4	21	2.6	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U
	410-108758-5 (DUP)	12/6/2022	4.3	6.8	8.1	9.4	21	2.5	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.5 U	2.5 U
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
	410-67474-8	12/9/2021	4.6 U	1.8 UJ	1.8	1.8 U	2.9	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
	410-109302-3	12/12/2022	6	12	9.7	6.1	8.4	3.5	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
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
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
FF-5-GW-76	410-64220-1	11/9/2021	24	85	60	35	29	5.4	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	4.3 U	4.3 U
IES-WFCT	410-106099-19	11/16/2022	1.6 U	0.42 J	0.74 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	0.82 U	0.82 U
IES-WFCT (DUP)	410-106099-20	11/16/2022	1.6 U	0.41 U	0.73 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	0.81 U	0.81 U
LB-3	410-67474-9	12/9/2021	4.5 U	1.9 J	1.8 U	1.8 U	3.8	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
	410-109302-2	12/12/2022	4.2 U	7.5	5.2	4.1	9	1.9	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.5 U	2.5 U
LB-4	410-67474-10	12/9/2021	4.5 U	2.3 J	3.4	2.5	5.3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
	410-109302-1	12/12/2022	5.8	6.1	8.2	7.7	11	2.5	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 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
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
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
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
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
NOR-07-GW-66	410-63056-1	11/4/2021	4.7 U	4.4	36	9.6	25	4.1	4.9	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	2.8 U
NOR-08-GW-66	410-63056-2	11/4/2021	210	1800	640	1.8	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
NOR-9-GW-65-67	410-85698-8	5/26/2022	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	0.87 U	0.87 U
NOR-10-GW-65-67	410-85698-9	5/26/2022	1.7 U	0.44 U	0.45 J	0.44 U	0.83 J	0.44 U	0.58 J	0.44 U	0.44 U	0.44 U	0.44 U	0.87 U	0.87 U
NOR-11-GW-65-67	410-85698-10	5/23/2022	6.2	12	32	10	31	12	20	5.2	1.7	0.42 U	0.42 U	0.84 U	0.84 U
NOR-22-GW-81	410-104627-6	11/2/2022	4.4 U	1.8 U	2.6	1.8 U	2.8	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
NOR-23-GW-76	410-104627-5	11/2/2022	4.4 U	1.8 U	1.9	1.8 U	2.5	1.8 U	1.9	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
NOR-24-GW-71	410-104627-7	11/3/2022	4.4 U	1.8 U	8.3	4.4	18	5.1	11	4.4	5.1	1.8 U	1.8 U	2.6 U	2.6 U
NOR-25-GW-56	410-104627-8	11/3/2022	43	310	140	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
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
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
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
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
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
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
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
PL-01-GW-56	410-105580-8	11/8/2022	4.4 U	7.4 J	12 J	8.7 J	27 J	9.5 J	17	3.4	1.9	1.7 U	1.7 U	2.6 U	2.6 U
PL-02-GW-56	410-105580-7	11/8/2022	5.2 J	10 J	28 J	13 J	48 J	15 J	31	6.1	4.3	1.8 U	1.8 U	2.7 U	2.7 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
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
RW6-49-GW-55	410-63056-9	11/8/2021	4.4 U	4.3	3	2.2	1.8	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U
RW6-49-GW-55DUP	410-63056-10	11/8/2021	4.4 U	4.1	3	2.2	1.9	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
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
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
RW6-68-GW-36	410-64220-6	11/11/2021	7.3 U	12	6	4.8	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	4.4 U	4.4 U
RW6-69-GW-41	410-64220-11	11/15/2021	12	31	24	17	12	4.3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U
RW6-69-GW-91	410-105580-9	11/8/2022	81 J	310 J	280 J	110 J	180 J	40 J	7.7	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
RW6-70-GW-46	410-64220-12	11/15/2021	4.5 U	1.8 U	2 U	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
RW6-71-GW-35-37	410-85697-25	5/26/2022	1.7 J	4.6	5.1 B	1.4 J	1.0 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
RW6-71-GW-75-77	410-85697-26	5/26/2022	25	94	65 B	24	10	15	1.0 J	0.44 U	0.44 U	0.44 U	0.44 U	0.87 U	0.87 U
RW6-72-GW-31	410-105580-1	11/7/2022	20 J	65 J	50 J	40 J	13 J	2.6 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
RW6-72-GW-31 (DUP)	410-105580-2	11/7/2022	20 J	63 J	51 J	41 J	13 J	2.5 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U
RW6-72-GW-81	410-105580-3	11/7/2022	4.5 U	6.6 J	19 J	9.9 J	35 J	14 J	30	5	3.2	1.8 U	1.8 U	2.7 U	2.7 U
RW6-73-GW-76	410-106099-17	11/15/2022	120	480	260	240	130	42	24	3.5	0.79 J	0.46 U	0.46 U	0.91 U	0.91 U
RW15-5-GW	410-64220-3	11/10/2021	7 U	20	12	7.8	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	4.2 U	4.2 U
RW15-6-GW	410-64220-4	11/10/2021	7 U	14	8	4.6	3.5	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	4.2 U	4.2 U
RW15-06-GW-91	410-105580-15	11/10/2022	98	530	460	120	84	20 U	20 U	20 U	20 U	20 U	20 U	30 U	30 U
RW15-7-GW	410-64220-16	11/16/2021	410	2600	1200	39	10	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	2.8 U
RW15-8-GW	410-64220-17	11/16/2021	270	1500	370	50	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
RW15-9-GW	410-64220-5	11/10/2021	9	2.8 U	3 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	4.1 U	4.1 U
RW15-10-GW	410-63056-3	11/5/2021	4.4 U	11	10	4.8	3.4	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
RW15-10-GW-91	410-104627-12	11/4/2022	4.6 U	2	3	1.8 U	2	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	2.8 U
RW15-11-GW	410-63056-4	11/5/2021	4.3 U	3.6	4	1.7 U	2.1	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.6 U	2.6 U
RW15-12-GW	410-63056-5	11/5/2021	4.4 U	11	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	2.6 U	2.6 U
RW15-13-GW	410-63056-6	11/5/2021	4.6 U	1.8 U	2 U	1.8 U	1.8 U	1.8 U	1.8 U	7.4	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
RW15-14-GW	410-63056-7	11/5/2021	4.4 U	1.8 U	2 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U
RW15-14-GW	410-63056-8	11/5/2021	4.4 U	1.8 U	2 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U
RW15-15-GW-40-42	410-85698-11	5/24/2022	1200	8800	4100	290	23	2.3	0.45 U	0.45 U	0.45 U	0.45 U	0.45 UJ	0.90 UJ	0.90 UJ
RW15-16-GW-45-47	410-85698-12	5/25/2022	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	0.87 U	0.87 U
RW15-17-GW-45-47	410-85698-13	5/24/2022	1.7 U	0.54 J	0.57 J	0.43 U	0.68 J	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.86 U	0.86 U
RW15-19-GW-40-42	410-85698-14	5/24/2022	1.8 U	3.0	2.8	0.44 U	0.47 J	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.88 U	0.88 U
RW15-21-GW-40-42	410-85698-15	5/24/2022	1.8 U	2.1	2.1	1.3 J	1.4 J	0.83 J	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.88 U	0.88 U
RW15-23-GW-40-42	410-85698-16	5/24/2022	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	0.85 U	0.85 U
RW15-24-GW-50-52	410-85698-17	5/25/2022	1.7 U	1.4 J	1.1 J	0.43 J	0.51 J	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.86 U	0.86 U
RW15-25-GW-45-47	410-85698-18	5/25/2022	11	69	26	5.0	1.2 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
RW15-25-GW-45-47 DUP	410-85698-19	5/25/2022	11	60	28	4.3	1.4 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.93 U	0.93 U
RW15-26-GW-80-82	410-85697-24	5/23/2022	2.9 J	3.4	15	5.6	21	11	14	2.6	0.72 J	0.41 U	0.41 U	0.82 U	0.82 U
RW15-27-GW-81	410-105580-4	11/7/2022	4.4 U	5.7 J	18 J	11 J	39 J	14 J	28	5.2	2.8	1.7 U	1.7 U	2.6 U	2.6 U
RW15-28-GW-46	410-105580-17	11/10/2022	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
RW15-28-GW-96	410-105580-18	11/10/2022	4.5 U	1.8 U	3.6	2.1	11	4.1	11	2.3	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
RW15-29-GW-91	410-105580-11	11/9/2022	16	90	28	5.9	14	3	6.5	2 U	2 U	2 U	2 U	3 U	3 U
RW15-30-GW-46	410-105580-12	11/9/2022	230	1600	760	100	25	1.9	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U
RW15-31-GW-46	410-105580-14	11/9/2022	4.4 U	1.7 U	1.7 U	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
RW15-32-GW-51	410-105580-10	11/9/2022	4.5 U	6.6	4.5	3	2.3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U

Sample Location ID	Laboratory ID	Date Sampled	PFBS [4S]	PFPeS [5S]	PFHxS [6S]	PFOS [8S]	PFHpS [7S]	PFNS [9S]	PFDS [10S]	PFDoS [12S]	PFOSA
		Subgroup	Sulfonates / Sulfonic Acids / Sulfonamides								
		Analyte	Perfluorobutanesulfonic ac	Perfluoropentanesulfonate	Perfluorohexanesulfonic ac	Perfluorooctanesulfonic aci	Perfluoroheptanesulfonic a	Perfluorononanesulfonic a	Perfluorodecanesulfonic ac	Perfluorododecanesulfonic	Perfluorooctanesulfonamid
		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
		RCGW-1 (ng/L)	na	na	20	20	na	na	na	na	na
ACK-01	1263643	2/18/2020	3.2	5.6	57	1.9	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
	410-67474-1	12/9/2021	1.8 U	1.8 U	8.9	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	1.8 U
	410-67474-2 (DUP)	12/9/2021	1.8 U	1.8 U	9.8	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
	410-108758-6	12/7/2022	1.8 U	2.1	20	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
ACK-08	1263639	2/17/2020	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
	410-67474-4	12/16/2021	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	2.5 UJ	1.7 UJ
	410-109302-11	12/14/2022	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
ACK-09	1263640	2/18/2020	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	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
	410-67474-3	12/15/2021	1.7 UJ	1.7 UJ	9.9 J	3.0 J	1.7 UJ	1.7 UJ	1.7 UJ	2.6 UJ	1.7 UJ
	410-109302-7	12/13/2022	1.8 U	1.8 U	7.4	5.2	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
ACK-10	410-21766-21	11/16/2020	3.0	-	32	56	-	-	-	-	-
	410-67474-5	12/9/2021	2.6	1.8 U	37	49	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
	410-109302-5	12/13/2022	2.1	1.7 U	37 J	72	1.7 UJ	1.7 U	1.7 U	2.6 U	1.7 U
ACK-11	1263642	2/18/2020	2.2	2.4	54	36	1.4 J	0.43 U	0.43 U	0.43 U	0.43 U
	410-67474-6	12/15/2021	2.3 J	2.7 J	88 J	73 J	3.7 J	1.7 UJ	1.7 UJ	2.6 UJ	1.7 UJ
	410-109302-8	12/13/2022	4.6	2.1	35	46	1.7 U	1.7 U	1.7 U	2.5 U	1.7 U
ACK-14	410-21766-2	11/16/2020	7.7	-	11	12	-	-	-	-	-
	410-67474-7	12/14/2021	4.7	1.8 U	17	14	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
	410-108758-4	12/6/2022	4.5	2.2	32	22	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U
	410-108758-5 (DUP)	12/6/2022	4.6	2	29	21	1.7 U	1.7 U	1.7 U	2.5 U	1.7 U
ACK-15	410-22051-28	11/20/2020	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
	410-67474-8	12/9/2021	1.9	1.8 U	1.8 U	11	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
	410-109302-3	12/12/2022	3.9	1.8 U	1.8	19	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
AG-01-GW	410-22051-24	11/20/2020	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	15	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
FF-5-GW-76	410-64220-1	11/9/2021	4.7	3.2	100	130	2.9 U	2.9 U	2.9 U	4.3 U	2.9 U
IES-WFCT	410-106099-19	11/16/2022	0.41 U	0.41 U	9.5	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.63 J
IES-WFCT (DUP)	410-106099-20	11/16/2022	0.41 J	0.41 U	9.4	0.81 U	0.41 U	0.41 U	0.41 U	0.41 U	0.64 J
LB-3	410-67474-9	12/9/2021	5.0	1.8 U	3.6	6.6	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
	410-109302-2	12/12/2022	8.6	1.7 U	7.1	17	1.7 U	1.7 U	1.7 U	2.5 U	1.7 U
LB-4	410-67474-10	12/9/2021	9.8	1.8 U	9.8	4.7	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
	410-109302-1	12/12/2022	4.7	1.8 U	9.7	17	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
NOR-01-GW-65-67	410-41740-1	5/23/2021	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	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	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	1.7 U	1.7 U	4.4	2.8	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	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 *+
NOR-07-GW-66	410-63056-1	11/4/2021	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	1.9 U
NOR-08-GW-66	410-63056-2	11/4/2021	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-9-GW-65-67	410-85698-8	5/26/2022	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
NOR-10-GW-65-67	410-85698-9	5/26/2022	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
NOR-11-GW-65-67	410-85698-10	5/23/2022	0.42 U	0.42 U	0.42 U	1.7 U	0.42 U	0.42 U	0.42 U	0.42 U	0.58 J
NOR-22-GW-81	410-104627-6	11/2/2022	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
NOR-23-GW-76	410-104627-5	11/2/2022	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
NOR-24-GW-71	410-104627-7	11/3/2022	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U
NOR-25-GW-56	410-104627-8	11/3/2022	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
PK-01-GW-33-35	410-41740-6	5/25/2021	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	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	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	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	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	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	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 *+
PL-01-GW-56	410-105580-8	11/8/2022	2.6	1.9	48 J	33 J	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U
PL-02-GW-56	410-105580-7	11/8/2022	3	1.8 U	40 J	30 J	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	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	11	29	450	120	28	0.43 U	0.43 U	0.43 U	1.2 J
RW6-49-GW-55	410-63056-9	11/8/2021	1.8 U	1.8 U	3	2.3	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U
RW6-49-GW-55DUP	410-63056-10	11/8/2021	1.8 U	1.8 U	3.2	2.3	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
RW6-66-GW	410-41731-1	5/21/2021	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	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
RW6-68-GW-36	410-64220-6	11/11/2021	2.9 U	2.9 U	7.7	20	2.9 U	2.9 U	2.9 U	4.4 U	2.9 U
RW6-69-GW-41	410-64220-11	11/15/2021	4	10	130	470	6.1	1.8 U	1.8 U	2.6 U	1.8 U
RW6-69-GW-91	410-105580-9	11/8/2022	43	69	1400 J	540 J	31 J	1.8 U	1.8 U	2.7 U	1.8 U
RW6-70-GW-46	410-64220-12	11/15/2021	1.8 U	1.8 U	1.9	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
RW6-71-GW-35-37	410-85697-25	5/26/2022	0.43 J	0.43 U	2.4	6.0 B	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
RW6-71-GW-75-77	410-85697-26	5/26/2022	3.0	5.4	78	100 B	4.0	0.44 U	0.44 U	0.44 U	0.44 U
RW6-72-GW-31	410-105580-1	11/7/2022	4.3	6.4	98 J	48 J	2.5 J	1.8 U	1.8 U	2.7 U	1.8 U
RW6-72-GW-31 (DUP)	410-105580-2	11/7/2022	4.4	6.5	95 J	50 J	2.4 J	1.8 U	1.8 U	2.6 U	1.8 U
RW6-72-GW-81	410-105580-3	11/7/2022	1.8 U	1.8 U	2.6 J	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
RW6-73-GW-76	410-106099-17	11/15/2022	1.0 J	0.59 J	14	56	0.71 J	0.46 U	0.46 U	0.46 U	0.64 U
RW15-5-GW	410-64220-3	11/10/2021	2.8 U	2.8 U	18	120	2.8 U	2.8 U	2.8 U	4.2 U	2.8 U
RW15-6-GW	410-64220-4	11/10/2021	2.8 U	2.8 U	3.5	13	2.8 U	2.8 U	2.8 U	4.2 U	2.8 U
RW15-06-GW-91	410-105580-15	11/10/2022	20 U	20 U	20 U	20 U	20 U	20 U	20 U	30 U	20 U
RW15-7-GW	410-64220-16	11/16/2021	7	1.8 U	8.7	9.4	1.8 U	1.8 U	1.8 U	2.8 U	1.8 U
RW15-8-GW	410-64220-17	11/16/2021	6.4	8.8	190	5.3 J	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
RW15-9-GW	410-64220-5	11/10/2021	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	4.1 U	2.8 U
RW15-10-GW	410-63056-3	11/5/2021	3.7	4.6	76	290	2	1.8 U	1.8 U	2.7 U	1.8 U
RW15-10-GW-91	410-104627-12	11/4/2022	8.6	2.1	5.7	32	1.8 U	1.8 U	1.8 U	2.8 U	1.8 U
RW15-11-GW	410-63056-4	11/5/2021	1.7 U	1.7 U	8.2	27	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U
RW15-12-GW	410-63056-5	11/5/2021	1.8 U	1.8 U	9.1	7.4	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U
RW15-13-GW	410-63056-6	11/5/2021	1.8 U	1.8 U	4.2	19	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U
RW15-14-GW	410-63056-7	11/5/2021	1.8 U	1.8 U	3.3	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U
RW15-14-GW	410-63056-8	11/5/2021	1.8 U	1.8 U	3.4	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U
RW15-15-GW-40-42	410-85698-11	5/24/2022	3.7	1.4 J	27	26	0.63 J	0.45 U	0.45 U	0.45 U	0.45 U
RW15-16-GW-45-47	410-85698-12	5/25/2022	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
RW15-17-GW-45-47	410-85698-13	5/24/2022	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
RW15-19-GW-40-42	410-85698-14	5/24/2022	0.73 J	1.0 J	4.7	3.2	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
RW15-21-GW-40-42	410-85698-15	5/24/2022	0.44 U	0.44 U	5.2	23	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
RW15-23-GW-40-42	410-85698-16	5/24/2022	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
RW15-24-GW-50-52	410-85698-17	5/25/2022	0.43 U	0.43 U	1.9	1.7	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
RW15-25-GW-45-47	410-85698-18	5/25/2022	0.43 U	0.43 U	0.44 J	1.3 J	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
RW15-25-GW-45-47 DUP	410-85698-19	5/25/2022	0.46 U	0.46 U	0.46 U	1.5 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
RW15-26-GW-80-82	410-85697-24	5/23/2022	1.8	0.47 J	2.5	11 B	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
RW15-27-GW-81	410-105580-4	11/7/2022	3.6	4.2	50 J	8.7 J	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U
RW15-28-GW-46	410-105580-17	11/10/2022	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
RW15-28-GW-96	410-105580-18	11/10/2022	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
RW15-29-GW-91	410-105580-11	11/9/2022	2 U	2.6	64	6.1	2 U	2 U	2 U	3 U	2 U
RW15-30-GW-46	410-105580-12	11/9/2022	6.8	6.1	590	670	4.9	1.8 U	1.8 U	2.7 U	1.8 U
RW15-31-GW-46	410-105580-14	11/9/2022	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
RW15-32-GW-51	410-105580-10	11/9/2022	1.8 U	1.8 U	14	19	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U

Sample Location ID	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	6:2-Fluorotelomersulfonic	8:2-Fluorotelomersulfonic	10:2 Fluorotelomersulfonic
		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
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
	410-67474-1	12/9/2021	2.8 U	1.8 U	2.8 U	2.8 U	2.8 U	4.6 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.8 U	4.6 U
	410-67474-2 (DUP)	12/9/2021	2.7 U	1.8 U	2.7 U	2.7 U	2.7 U	4.6 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.7 U	4.6 U
	410-108758-6	12/7/2022	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
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
	410-67474-4	12/16/2021	2.5 UJ	1.7 UJ	2.5 UJ	2.5 UJ	2.5 UJ	4.2 UJ	2.5 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	4.2 UJ	2.5 UJ	4.2 UJ
	410-109302-11	12/14/2022	2.5 U	1.7 U	2.5 U	2.5 U	2.5 U	4.1 U	2.5 U	1.7 U	1.7 U	1.7 U	1.7 UJ	4.1 U	2.5 U	4.1 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
	410-67474-3	12/15/2021	2.6 UJ	1.7 UJ	2.6 UJ	2.6 UJ	2.6 UJ	4.3 UJ	2.6 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	4.3 UJ	2.6 UJ	4.3 UJ
	410-109302-7	12/13/2022	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
ACK-10	410-21766-21	11/16/2020	0.44 U	0.44 U	-	-	-	-	-	-	-	-	-	-	-	-
	410-67474-5	12/9/2021	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	700	9.4	4.5 U
	410-109302-5	12/13/2022	2.6 U	1.7 U	2.6 U	2.6 U	2.6 U	4.3 U	2.6 UJ	1.7 UJ	1.7 U	1.7 U	1.7 UJ	100	22	4.3 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
	410-67474-6	12/15/2021	2.6 UJ	1.7 UJ	2.6 UJ	2.6 UJ	2.6 UJ	4.3 UJ	2.6 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	4.3 UJ	2.6 UJ	4.3 UJ
	410-109302-8	12/13/2022	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
ACK-14	410-21766-2	11/16/2020	0.47 U	0.47 U	-	-	-	-	-	-	-	-	-	-	-	-
	410-67474-7	12/14/2021	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
	410-108758-4	12/6/2022	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
	410-108758-5 (DUP)	12/6/2022	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
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
	410-67474-8	12/9/2021	2.7 U	1.8 U	2.7 U	2.7 U	2.7 U	4.6 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.7 U	4.6 U
	410-109302-3	12/12/2022	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 UJ	6.9	2.7 U	4.5 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
FF-5-GW-76	410-64220-1	11/9/2021	4.3 U	2.9 U	4.3 U	4.3 R	15 J	7.2 R	4.3 U	2.9 U	2.9 U	2.9 U	2.9 U	31	4.3 U	7.2 U
IES-WFCT	410-106099-19	11/16/2022	0.41 U	0.49 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	3.4 U	0.82 U	0.82 U
IES-WFCT (DUP)	410-106099-20	11/16/2022	0.41 U	0.49 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.41 U	0.41 U	0.41 U	0.41 U	3.4 U	0.81 U	0.81 U
LB-3	410-67474-9	12/9/2021	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
	410-109302-2	12/12/2022	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
LB-4	410-67474-10	12/9/2021	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
	410-109302-1	12/12/2022	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
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
NOR-07-GW-66	410-63056-1	11/4/2021	2.8 U	1.9 U	2.8 U	2.8 U	2.8 U	4.7 U	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	4.7 U	2.8 U	4.7 U
NOR-08-GW-66	410-63056-2	11/4/2021	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-9-GW-65-67	410-85698-8	5/26/2022	0.43 U	0.52 U	0.87 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	1.7 U	0.87 U	0.87 U
NOR-10-GW-65-67	410-85698-9	5/26/2022	0.44 U	0.52 U	0.87 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	1.7 U	0.87 U	0.87 U
NOR-11-GW-65-67	410-85698-10	5/23/2022	0.42 U	0.51 U	0.84 U	0.84 U	0.84 U	0.84 U	0.87 J	0.42 U	0.42 U	0.42 U	0.42 U	14	9.5	2.3 J
NOR-22-GW-81	410-104627-6	11/2/2022	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
NOR-23-GW-76	410-104627-5	11/2/2022	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
NOR-24-GW-71	410-104627-7	11/3/2022	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	6.9	11	19
NOR-25-GW-56	410-104627-8	11/3/2022	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-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
PL-01-GW-56	410-105580-8	11/8/2022	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	5.8	12 J	5.1
PL-02-GW-56	410-105580-7	11/8/2022	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	15	21 J	11
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
RW6-49-GW-55	410-63056-9	11/8/2021	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
RW6-49-GW-55DUP	410-63056-10	11/8/2021	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
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
RW6-68-GW-36	410-64220-6	11/11/2021	4.4 U	2.9 U	4.4 U	4.4 U	4.4 U	7.3 U	4.4 U	2.9 U	2.9 U	2.9 U	2.9 U	7.3 U	4.4 U	7.3 U
RW6-69-GW-41	410-64220-11	11/15/2021	2.6 U	1.8 U	2.6 U	2.6 UJ	2.6 U	4.4 UJ	2.6 U	1.8 U	1.8 U	1.8 U	1.8 U	29	2.6 U	4.4 U
RW6-69-GW-91	410-105580-9	11/8/2022	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	49	5.3 J	4.5 U
RW6-70-GW-46	410-64220-12	11/15/2021	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
RW6-71-GW-35-37	410-85697-25	5/26/2022	0.43 U	0.52 U	0.87 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	1.7 U	0.87 U	0.87 U
RW6-71-GW-75-77	410-85697-26	5/26/2022	0.44 U	0.52 U	0.87 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	26	0.87 U	0.87 U
RW6-72-GW-31	410-105580-1	11/7/2022	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
RW6-72-GW-31 (DUP)	410-105580-2	11/7/2022	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
RW6-72-GW-81	410-105580-3	11/7/2022	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	11	23 J	7.3
RW6-73-GW-76	410-106099-17	11/15/2022	0.46 U	0.55 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.46 U	0.46 U	0.46 U	0.75 J	2200	120	0.91 U
RW15-5-GW	410-64220-3	11/10/2021	4.2 U	2.8 U	4.2 U	4.2 U	4.2 U	7 U	4.2 U	2.8 U	2.8 U	2.8 U	2.8 U	7 U	4.2 U	7 U
RW15-6-GW	410-64220-4	11/10/2021	4.2 U	2.8 U	4.2 U	4.2 U	4.2 U	7 U	4.2 U	2.8 U	2.8 U	2.8 U	2.8 U	7 U	4.2 U	7 U
RW15-06-GW-91	410-105580-15	11/10/2022	30 U	20 U	30 U	30 U	30 U	50 U	30 U	20 U	20 U	20 U	20 U	3200	30 U	50 U
RW15-7-GW	410-64220-16	11/16/2021	2.8 U	1.8 U	2.8 U	2.8 U	2.8 U	4.6 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.8 U	4.6 U
RW15-8-GW	410-64220-17	11/16/2021	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
RW15-9-GW	410-64220-5	11/10/2021	4.1 U	2.8 U	4.1 U	4.1 U	4.1 U	6.9 U	4.1 U	2.8 U	2.8 U	2.8 U	2.8 U	6.9 U	4.1 U	6.9 U
RW15-10-GW	410-63056-3	11/5/2021	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
RW15-10-GW-91	410-104627-12	11/4/2022	2.8 U	1.8 U	2.8 U	2.8 U	2.8 U	4.6 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.8 U	4.6 U
RW15-11-GW	410-63056-4	11/5/2021	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
RW15-12-GW	410-63056-5	11/5/2021	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
RW15-13-GW	410-63056-6	11/5/2021	2.7 U	1.8 U	2.7 U	2.7 U	2.7 U	4.6 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.7 U	4.6 U
RW15-14-GW	410-63056-7	11/5/2021	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
RW15-14-GW	410-63056-8	11/5/2021	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
RW15-15-GW-40-42	410-85698-11	5/24/2022	0.45 U	0.54 U	0.90 U	42 J	0.90 U	0.90 UJ	0.9 U	0.45 U	0.45 U	0.45 U	0.45 U	88	0.9 U	0.9 U
RW15-16-GW-45-47	410-85698-12	5/25/2022	0.43 U	0.52 U	0.87 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	1.7 U	0.87 U	0.87 U
RW15-17-GW-45-47	410-85698-13	5/24/2022	0.43 U	0.52 U	0.86 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	1.7 U	0.86 U	0.86 U
RW15-19-GW-40-42	410-85698-14	5/24/2022	0.44 U	0.53 U	0.88 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	1.8 U	0.88 U	0.88 U
RW15-21-GW-40-42	410-85698-15	5/24/2022	0.44 U	0.53 U	0.88 U	0.88 UJ	0.88 UJ	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	1.8 U	0.88 U	0.88 U
RW15-23-GW-40-42	410-85698-16	5/24/2022	0.42 U	0.51 U	0.85 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	1.7 U	0.85 U	0.85 U
RW15-24-GW-50-52	410-85698-17	5/25/2022	0.43 U	0.51 U	0.86 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	1.7 U	0.86 U	0.86 U
RW15-25-GW-45-47	410-85698-18	5/25/2022	0.43 U	0.52 U	0.87 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	1.7 U	0.87 U	0.87 U
RW15-25-GW-45-47 DUP	410-85698-19	5/25/2022	0.46 U	0.56 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.46 U	0.46 U	0.46 U	0.46 U	1.9 U	0.93 U	0.93 U
RW15-26-GW-80-82	410-85697-24	5/23/2022	0.41 U	0.49 U	0.82 U	1.4 J	0.82 U	0.82 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	7.0	8.6	1.4 J
RW15-27-GW-81	410-105580-4	11/7/2022	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 UJ	9.7	18 J	6.9
RW15-28-GW-46	410-105580-17	11/10/2022	2.6 U	1.7 U	2.6 U	2.6 UJ	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
RW15-28-GW-96	410-105580-18	11/10/2022	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	8.1	5.7
RW15-29-GW-91	410-105580-11	11/9/2022	3 U	2 U	3 U	3 U	3 U	4.9 U	3 U	2 U	2 U	2 U	2 UJ	4.9 U	4.6	4.9 U
RW15-30-GW-46	410-105580-12	11/9/2022	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	180	2.7 U	4.5 U
RW15-31-GW-46	410-105580-14	11/9/2022	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
RW15-32-GW-51	410-105580-10	11/9/2022	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

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									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 aci	Perfluorohexadecanoic aci	Perfluorooctadecanoic aci	Perfluorobutanesulfonic ac	Perfluoropentanesulfonate	Perfluorohexanesulfonic ac	Perfluorooctanesulfonic aci	Perfluoroheptanesulfonic a	Perfluorononanesulfonic ac	Perfluorodecanesulfonic ac	Perfluorododecanesulfonic	Perfluorooctanesulfonamid	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2-Fluorotelomersulfonic	6:2-Fluorotelomersulfonic	8:2-Fluorotelomersulfonic	10:2 Fluorotelomersulfonic
		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
		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	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Sample Location ID	Laboratory ID	Date Sampled																																				
RW24-5-GW	410-64220-7	11/11/2021	7.4 U	2.9 U	3 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	4.4 U	4.4 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	4.4 U	2.9 U	4.4 U	2.9 U	4.4 U	4.4 U	4.4 U	7.4 U	4.4 U	2.9 U	2.9 U	2.9 U	2.9 U	7.4 U	4.4 U	7.4 U
RW24-6-GW	410-64220-8	11/11/2021	7.3 U	2.9 U	3 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	4.4 U	4.4 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	4.4 U	2.9 U	4.4 U	2.9 U	4.4 U	4.4 U	4.4 U	7.3 U	4.4 U	2.9 U	2.9 U	2.9 U	2.9 U	7.3 U	4.4 U	7.3 U
RW24-7-GW	410-64220-9	11/11/2021	7.1 U	2.8 U	3 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	4.3 U	4.3 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	4.3 U	2.8 U	4.3 U	2.8 U	4.3 U	4.3 U	4.3 U	7.1 U	4.3 U	2.8 U	2.8 U	2.8 U	2.8 U	7.1 U	4.3 U	7.1 U
RW24-8-GW	410-64220-10	11/11/2021	7 U	2.8 U	3 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	4.2 U	4.2 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	4.2 U	2.8 U	4.2 U	2.8 U	4.2 U	4.2 R	4.2 U	7 R	4.2 U	2.8 U	2.8 U	2.8 U	2.8 U	7 U	4.2 U	7 U
RW24-9-GW	410-64220-18	11/17/2021	4.5 U	1.8 U	2 U	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	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
SL-5-GW-40-42	410-85698-5	5/25/2022	**24**	**70**	**34**	**25**	**12**	**3.0**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.86 U	0.86 U	**0.71 J**	**0.61 J**	**10**	**7.0**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.52 U	0.86 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	1.7 U	0.86 U	0.86 U
SL-6-GW-45-47	410-85698-6	5/25/2022	**7.9**	**20**	**11**	**5.8**	**5.6**	**0.69 J**	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.87 U	0.87 U	**1.4 J**	**0.75 J**	**12**	**7.4**	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.52 U	0.87 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	1.7 U	0.87 U	0.87 U
SL-7-GW-45-47	410-85698-7	5/25/2022	**21**	**76**	**53**	**5.9**	**6.6**	**1.2 J**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.87 U	0.87 U	**33**	**13**	**4.9**	**0.62 J**	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.52 U	0.87 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	**7.8**	0.87 U	0.87 U
SL-21-GW-51	410-105580-6	11/8/2022	**78 J**	**280 J**	**220 J**	**110 J**	**48 J**	**1.8 J**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U	**10**	**12**	**200 J**	**350 J**	**3.8 J**	1.8 U	1.8 U	2.7 U	1.8 U	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	**13**	2.7 U	4.5 U
SP-22-GW-31	410-64220-15	11/15/2021	4.5 U	1.8 U	2 U	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	**2.8**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	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
SP-23-GW-36	410-64220-13	11/15/2021	4.5 U	1.8 U	2 U	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	2.7 U	1.8 U	2.7 UJ	2.7 R	2.7 U	4.5 R	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.5 U	2.7 U	4.5 U
SP-24-GW-36	410-64220-14	11/15/2021	4.6 U	1.8 U	2 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	2.8 U	2.8 U	4.6 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.8 U	4.6 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**	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	**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**	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
SRB-8-GW-75	410-63056-11	11/9/2021	**4.5**	**12**	**15**	**6.2**	**9.3**	**2.4**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U	**3.0**	**3.3**	**78**	**410**	**4.9**	1.8 U	1.8 U	2.6 U	1.8 U	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	**22**	2.6 U	4.4 U
SRB-9-GW-54	410-63056-12	11/9/2021	**4.9**	**20**	**7**	**2**	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	**25**	**4.6**	1.7 U	1.7 U	1.7 U	2.6 U	1.7 U	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
SRB-10-GW-41	410-63056-13	11/9/2021	4.6 U	1.8 U	2 U	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	**10**	**3.4 J**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	2.7 U	1.8 U	2.7 U	2.7 U	2.7 U	4.6 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.7 U	4.6 U
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 *+	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	**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 *+	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
SRE-19-GW-51	410-104627-9	11/3/2022	4.4 U	1.8 U	2 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U	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
SRE-20-GW-51	410-104627-10	11/3/2022	**16**	**63**	**38**	**7.7**	**7.9**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U	**2.3**	1.8 U	**5.2**	**6.4**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	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
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**	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	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	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	**1.0 J**	**0.91 J**
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	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	**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**	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
SRJ-57-GW-76	410-64220-2	11/9/2021	**26**	**97**	**58**	**35**	**28**	**9.8**	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	4.2 U	4.2 U	**4.2**	**4.8**	**93**	**120**	2.8 U	2.8 U	2.8 U	4.2 U	2.8 U	4.2 U	2.8 U	4.2 U	4.2 U	4.2 U	6.9 U	4.2 U	2.8 U	2.8 U	2.8 U	2.8 U	**31**	4.2 U	6.9 U
TACK-1	410-67472-1	12/14/2021	4.5 U	1.8 U	1.8 U	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	**7.6**	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	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
	410-108758-8	12/8/2022	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	2.6 U	2.6 U	1.8 U	1.8 U	**4**	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U	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	**8.3**	2.6 U	4.4 U
TACK-2	410-67472-2	12/14/2021	4.5 U	1.8 U	1.8 U	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	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
	410-108758-9	12/8/2022	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	2.6 U	2.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U	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	**26**	2.6 U	4.4 U
TACK-3	410-67472-3	12/15/2021	**640 J**	**4800 J**	**2100 J**	**180 J**	**48 J**	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	2.7 UJ	2.7 UJ	**24 J**	**42 J**	**3300 J**	**25 J**	**16 J**	1.8 UJ	1.8 UJ	2.7 UJ	1.8 UJ	2.7 UJ	1.8 UJ	2.7 UJ	2.7 UJ	2.7 UJ	4.5 UJ	2.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	**220 J**	2.7 UJ	4.5 UJ
	410-108758-17	12/9/2022	**340**	**2000**	**660**	**91**	**57**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U	**26**	**38**	**2400**	**290**	**23**	1.8 U	1.8 U	2.7 U	1.8 U	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	**42**	2.7 U	4.4 U
TACK-4	410-67472-4	12/15/2021	4.5 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	2.7 UJ	2.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	2.7 UJ	1.8 UJ	2.7 UJ	1.8 UJ	2.7 UJ	2.7 UJ	2.7 UJ	4.5 UJ	2.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	4.5 UJ	2.7 UJ	4.5 UJ
	410-108758-15	12/9/2022	4.5 U	1.8 U	1.8 U	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	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
TACK-5	410-67472-5	12/10/2021	4.5 U	1.8 UJ	1.8 U	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	**3.0**	**2.6**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	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
	410-108758-10	12/8/2022	4.4 U	1.7 U	1.7 U	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	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
TACK-6	410-67472-6	12/10/2021	4.6 U	**7.5 J**	**7.9**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	1.8 U	2.8 UJ	1.8 UJ	2.8 U	2.8 U	2.8 U	4.6 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.8 U	4.6 U
	410-108758-11	12/8/2022	4.4 U	**4.2**	**4.6**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U	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 UJ	**7.9**	2.6 U	4.4 U
TACK-7	410-67472-7	12/10/2021	4.7 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	1.9 U	2.8 U	1.9 U	2.8 U	2.8 UJ	2.8 U	4.7 UJ	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	4.7 U	2.8 U	4.7 U
	410-109302-6	12/13/2022	4.5 U	**2.5**	1.8 U	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	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	**4.6**	2.7 U	4.5 U
TACK-8	410-67472-8	12/8/2021	**40**	**140 J**	**110**	**42**	**10**	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	**2.0**	**42**	**110**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	2.7 U	1.8 U	2.7 U	2.7 UJ	2.7 U	4.4 UJ	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	**22**	2.7 U	4.4 U
	410-108758-13	12/9/2022	**76**	**260**	**200**	**76**	**16**	**3**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.5 U	2.5 U	1.7 U	**2.0**	**33**	**120**	1.7 U	1.7 U	1.7 U	2.5 U	1.7 U	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	**13**	2.5 U	4.2 U
TACK-9	410-67472-9	12/16/2021	**8.4 J**	**21 J**	**18 J**	**12 J**	**4.3 J**	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	**13 J**	**16 J**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	2.7 U	1.8 U	2.7 U	2.7 R	2.7 R	4.5 R	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.5 U	2.7 U	4.5 U
	410-108758-14	12/9/2022	4.4 U	**4.2**	**4**	**3.1**	**6**	**7.7**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U	1.8 U	1.8 U	**2.3**	**18**	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U	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	**6.5**	2.6 U	4.4 U
TACK-10	410-67472-10	12/16/2021	4.5 U	**3.3 J**	**3.4**	**2.5**	**2.6 J**	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	2.7 U	1.8 U	2.7 U	2.7 UJ	2.7 U	4.5 UJ	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.5 U	2.7 U	4.5 U
	410-108758-7	12/7/2022	**7**	**6.9**	**6.4**	**3.4**	**3.3**	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**	1.8 U	**2.6**	**2.3**	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	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	**42**	2.7 U	4.5 U
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	-	-	-	-	-	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	-	-	-	-	-	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**	-	-	-	-	-	1.7 U *3	1.7 U *3	-	-	-	-	-	-	-	-	-	-	-	-
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**	-	-	-	-	-	1.7 U *3	1.7 U *3	-	-	-	-	-	-	-	-	-	-	-	-
FFGAC-EFF	410-74409-8	2/24/2022	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	**2.6**	2.6 U	2.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U	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
FFGAC-MID	410-74409-9	2/24/2022	4.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**2.8**	2.9 U	2.9 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	2.9 U	1.9 U	2.9 U	2.9 U	2.9 U	4.8 U	2.9 U	1.9 U	1.9 U	1.9 U	1.9 U	4.8 U	2.9 U	4.8 U
FFGAC-INF	410-74409-10	2/24/2022	**24**	**6.4**	**33**	**26**	**41**	**27**	**33**	**28**	**30**	**7.0**	**6.6**	2.8 U	2.8 U	1.9 U	1.9 U	1.9 U	**2.0**	1.9 U	1.9 U	1.9 U	2.8 U	1.9 U	2.8 U	1.9 U	2.8 U	2.8 U	2.8 U	4.7 U	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	**400**	**160**	**84**
FFGAC-EFF	410-76682-2	3/16/2022	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	2.6 U	1.7 U	2.6 U	2.6 UJ	2.6 U	4.3 UJ	2.6 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	2.6 U	4.3 U
FFGAC-MID	410-76682-3	3/16/2022	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	2.6 U	2.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U	2.6 U	1.8 U	2.6 U	2.6 UJ	2.6 U	4.4 UJ	2.6 U	1.8 U	1.8 U	1.8 U	1.8 U	4.4 U	**6.5**	4.4 U
FFGAC-INF	410-76682-4	3/16/2022	**15 J**	**19 J**	**83 J**	**61 J**	**150 J**	**63 J**	**28 J**	**3.6 J**	1.7 UJ	1.7 UJ	1.7 UJ	2.6 UJ	2.6 UJ	1.7 UJ	1.7 UJ	1.7 UJ	**1.7 J**	1.7 UJ	1.7 UJ	1.7 UJ	2.6 UJ	1.7 UJ	2.6 UJ	1.7 UJ	2.6 UJ	2.6 UJ	2.6 UJ	4.3 UJ	2.6 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	**1800 J**	**580 J**	**17 J**
FFGAC-EFF	410-95902-11	8/24/2022	**290**	**18**	1.7 U	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	2.5 U	1.7 U	2.5 U	2.5 UJ	2.5 U	4.2 UJ	2.5 U	1.7 U	1.7 U	1.7 U	1.7 U	**16**	**8.6**	**14**
FFGAC-MID	410-95902-12	8/24/2022	**520**	**530**	**610**	**36**	**3.9**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	2.7 U	**2.0**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	2.7 U	1.8 U	2.7 UJ	2.7 UJ	2.7 UJ	4.4 UJ	2.7 U	1.8 U	1.8 U	1.8 U	**6.6**	**33**	**6.5**	**8.3**
FFGAC-INF	410-95902-13	8/24/2022	**860**	**1500**	**3700**	**240 J**	**170**	**82**	**47**	20 U	20 U	20 U	20 U	30 U	30 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	30 U	20 U	30 U	20 U	30 U	30 U	30 U	50 U	30 UJ	20 U	20 U	20 U	**41 J**	**32000**	**1400**	50 U
FFGAC-INF DUP	410-95902-14	8/24/2022	**860**	**1400**	**4000**	**260 J**	**170**	**77**	**49**	20 U	20 U	20 U	20 U	30 U	30 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	30 U	20 U	30 U	20 U	30 U	30 U	30 U	50 U	30 UJ	20 U	20 U	20 U	**41 J**	**30000**	**1400**	50 U
FFGAC-EFF	410-108757-1	12/8/2022	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	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	**4.4**
FFGAC-MID	410-108757-2	12/8/2022	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	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	**4.8**
FFGAC-INF	410-108757-3	12/8/2022	**9.1**	**2.6**	**8.5**	**5.2**	**15**	**6.1 J**	**9.3**	**4.7**	**3.8**	1.7 U	**1.7**	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	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 UJ	**29 J**	**22**	**15**
FFGAC-INF DUP	410-108757-4	12/8/2022	**9.3**	**2.7**	**8.4**	**5.2**	**14**	**5.9 J**	**9.4**	**4.6**	**4**	1.7 U	**1.7**	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	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 UJ	**31 J**	**25**	**17**
IRRIGATION WELL SAMPLES																																						
IW-1 (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**	-	-	-	-	-	1.6 U	1.6 U	-	-	-	-	-	-	-	-	-	-	-	-
IW-2 (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	-	-	-	-	-	1.6 U	1.6 U	-	-	-	-	-	-	-	-	-	-	-	-
IW-3 (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	-	-	-	-	-	1.6 U	1.6 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			Carboxylic Acids													Sulfonates / 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 a	Perfluorononanesulfonic ac	Perfluorodecanesulfonic ac	Perfluorododecanesulfonic	Perfluorooctanesulfonamide	NEtFOSAA	NMeFOSAA	NMeFOSE	NMeFOSA	NEtFOSE	NEtFOSA	HFPODA	DONA	9Cl-PF3ONS	11Cl-PF3OUdS	4:2 Fluorotelomersulfonic	6:2 Fluorotelomersulfonic	8:2 Fluorotelomersulfonic	10:2 Fluorotelomersulfonic
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
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	na	na	na	na	na	na	na	na	na	na	na	na	na
Sample Location ID	Laboratory ID	Date Sampled																																			
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	0.44 U	0.53 U	0.88 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	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	0.46 U	0.55 U	0.91 UJ	0.91 R	0.91 UJ	0.91 R	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	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	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	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	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
	410-63056-14	11/9/2021	4.7 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	1.9 U	2.8 U	1.9 U	2.8 U	2.8 U	2.8 U	4.7 U	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	4.7 U	2.8 U	4.7 U
	410-63056-15	11/10/2021	4.5 U	1.8 U	1.8 U	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	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
	410-63056-16	11/10/2021	4.9 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	2.9 U	2.9 U	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	2.9 U	2.0 U	2.9 U	2.9 U	2.9 U	4.9 U	2.9 U	2.0 U	2.0 U	2.0 U	2.0 U	4.9 U	2.9 U	4.9 U
	410-64220-19	11/17/2021	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	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
	410-67474-12	12/10/2021	4.4 U	1.8 UJ	1.8 U	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	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
	410-67474-13	12/10/2021	4.5 U	1.8 UJ	1.8 U	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	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
	410-67472-11	12/16/2021	4.4 U	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	2.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.6 U	1.8 U	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
	410-67472-12	12/16/2021	4.5 U	1.8 UJ	1.8 U	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	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
	410-85698-2	5/23/2022	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	0.85 U	0.85 U	0.42 U	0.42 U	0.42 U	1.7 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.51 U	0.85 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	1.7 U	0.85 U	0.85 U
	410-85698-3	5/23/2022	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	1.7 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.51 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.43 U	0.43 U	0.43 U	1.7 U	0.85 U	0.85 U
	410-85698-4	5/24/2022	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	1.7 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.51 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.43 U	0.43 U	0.43 U	1.7 U	0.85 U	0.85 U
	410-85697-2	5/25/2022	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	1.8 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.55 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.46 U	0.46 U	0.46 U	0.46 U	1.8 U	0.91 U	0.91 U
	410-85697-3	5/25/2022	1.8 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.88 UJ	0.88 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.53 UJ	0.88 UJ	0.88 UJ	0.88 UJ	0.88 UJ	0.88 UJ	0.88 UJ	0.44 UJ	0.44 UJ	0.44 UJ	1.8 UJ	0.88 UJ	0.88 UJ
	410-85697-4	5/26/2022	1.8 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	0.91 U	0.91 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	0.54 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.45 U	0.45 U	0.45 U	1.8 U	0.91 U	0.91 U
	410-104055-19	10/31/2022	1.8 U	0.44 U	0.79 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	0.44 U	0.53 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	3.7 U	0.88 U	0.88 U
	410-104055-2	10/31/2022	1.7 U	0.42 U	0.75 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	0.84 U	0.84 U	0.42 U	0.42 U	0.42 U	0.84 U	0.42 U	0.42 U	0.42 U	0.42 U	0.59 U	0.42 U	0.50 U	0.84 U	0.84 U	0.84 U	0.84 U	0.84 U	0.84 U	0.42 U	0.42 U	0.42 U	3.5 U	0.84 U	0.84 U
	410-104055-27	10/31/2022	1.7 U	0.43 U	0.78 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	0.87 U	0.87 U	0.43 U	0.43 U	0.43 U	0.87 U	0.43 U	0.43 U	0.43 U	0.43 U	0.61 U	0.43 U	0.52 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.43 U	0.43 U	0.43 U	3.7 U	0.87 U	0.87 U
	410-104055-28	10/31/2022	1.7 U	0.43 U	0.77 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	0.86 U	0.86 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.86 U	0.43 U	0.43 U	0.60 U	0.43 U	0.52 U	0.86 U	0.86 U	0.86 U	0.86 U	0.86 U	0.86 U	0.43 U	0.43 U	0.43 U	3.6 U	0.86 U	0.86 U
	410-104627-1	11/2/2022	4.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	2.8 U	2.8 U	4.6 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.8 U	4.6 U
	410-104627-2	11/2/2022	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 UJ	2.5 UJ	2.5 UJ	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	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
	410-104627-3	11/2/2022	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	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
	410-104627-4	11/2/2022	4.7 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	1.9 U	2.8 U	1.9 U	2.8 U	2.8 U	2.8 U	4.7 U	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	4.7 U	2.8 U	4.7 U
	410-104627-11	11/3/2022	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	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
	410-105580-5	11/7/2022	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	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
	410-105580-13	11/9/2022	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	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
	410-105580-16	11/10/2022	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	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
	410-106099-16	11/14/2022	1.7 U	0.43 U	0.78 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	0.86 U	0.86 U	0.43 U	0.43 U	0.43 U	0.86 U	0.43 U	0.43 U	0.43 U	0.43 U	0.61 U	0.43 U	0.52 U	0.86 U	0.86 U	0.86 U	0.86 U	0.86 U	0.86 U	0.43 U	0.43 U	0.43 U	3.6 U	0.86 U	0.86 U
	410-108758-1	12/6/2022	4.5 U	1.8 U	1.8 U	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	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
	410-108758-2	12/6/2022	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	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
	410-108758-3	12/6/2022	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	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
	410-108758-12	12/8/2022	4.5 U	1.8 U	1.8 U	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	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
	410-109302-4	12/12/2022	4.6 U	1.8 U	1.8 U	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	2.7 U	1.8 U	2.7 U	2.7 U	2.7 U	4.6 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	4.6 U	2.7 U	4.6 U
	410-109302-10	12/13/2022	4.6 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8 U	1.9 U	2.8 U	1.9 U	2.8 U	2.8 U	2.8 U	4.6 U	2.8 U	1.9 U	1.9 U	1.9 U	1.9 U	4.6 U	2.8 U	4.6 U
FIELD BLANK	410-76682-1	3/16/2022	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	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
	410-85698-1	5/23/2022	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	1.8 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.55 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.46 U	0.46 U	0.46 U	1.8 U	0.92 U	0.92 U
	410-85697-1	5/26/2022	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	0.46 U	0.55 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.46 U	0.46 U	0.46 U	1.8 U	0.92 U	0.92 U
	410-95902-10	8/24/2022	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	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
	410-104055-1	10/31/2022	1.8 U	0.45 U	0.80 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	0.89 U	0.89 U	0.45 U	0.45 U	0.45 U	0.89 U	0.45 U	0.45 U	0.45 U	0.45 U	0.62 U	0.45 U	0.53 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.45 U	0.45 U	0.45 U	3.7 U	0.89 U	0.89 U
	410-105580-19	11/11/2022	4 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	2.4 U	1.6 U	2.4 U	1.6 U	2.4 U	2.4 U	2.4 U	4 U	2.4 U	1.6 U	1.6 U	1.6 U	1.6 U	4 U	2.4 U	4 U
	410-106099-18	11/15/2022	1.8 U	0.44 U	0.79 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	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.62 U	0.44 U	0.53 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	3.7 U	0.88 U	0.88 U
	410-108758-16	12/9/2022	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	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
	410-109302-9	12/13/2022	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	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

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

nz = location not sampled due to dry conditions

B = Compound was found in the blank and sample.

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.

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

Table 5
Groundwater Elevations and Monitoring Well Information
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA
RTN: 4-28219

Well ID	Coordinates NAD83 Northing	Coordinates NAD83 Easting	Top / PVC (ft amsl)	Top Well Casing (ft amsl)	Ground Elevation (ft)	Measured Depth to Bottom (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
ACK-01	91049.68	1757826.52	20.94	21.27	20.27	24.49	2/11/2020	15.65	5.29
							2/18/2020	15.67	5.27
							11/24/2020	17.02	3.92
							12/7/2021	17.17	3.77
							8/24/2022	16.95	3.99
							12/6/2022	16.83	4.11
ACK-06	92345.30	1763710.81	40.76	40.91	40.8	35.10	2/11/2020	Dry	Dry
							11/24/2020	39.27	1.49
							12/7/2021	Dry	Dry
							8/24/2022	Dry	Dry
							12/6/2022	Dry	Dry
ACK-08	93278.90	1764265.01	45.95	46.52	44.58	51.02	2/11/2020	36.78	9.17
							2/17/2020	36.77	9.18
							11/24/2020	39.27	6.68
							12/7/2021	40.35	5.60
							8/24/2022	39.17	6.78
							12/6/2022	39.71	6.24
ACK-09	91893.61	1761872.25	34.03	34.22	32.7	38.86	2/11/2020	26.90	7.13
							2/18/2020	26.89	7.14
							11/24/2020	28.74	5.29
							12/7/2021	28.98	5.05
							8/24/2022	28.67	5.36
							12/6/2022	28.8	5.23
ACK-10	93695.21	1759852.39	32.58	32.9	32.16	34.50	11/24/2020	26.76	5.82
							12/7/2021	27.09	5.49
							8/24/2022	26.77	5.81
							12/6/2022	26.83	5.75
ACK-11	94618.41	1760033.25	39.90	40.17	40.11	41.36	2/11/2020	30.60	9.30
							2/18/2020	30.72	9.18
							11/24/2020	33.38	6.52
							12/7/2021	33.75	6.15
							8/24/2022	33.39	6.51
							12/6/2022	33.69	6.21
ACK-14	94999.32	1760163.06	38.75	38.88	37.76	40.25	11/24/2020	32.16	6.59
							12/7/2021	32.59	6.16
							8/24/2022	32.17	6.58
							12/6/2022	32.44	6.31
ACK-15	94984.13	1760195.97	39.48	40.22	38.8	40.40*	11/24/2020	32.59	6.89
							12/7/2021	33.34	6.14
							8/24/2022	32.98	6.50
							12/6/2022	33.22	6.26
TACK-1	95669.977	1763406.634	53.60	53.84	53.75	58.70	12/7/2021	46.67	6.93
							8/24/2022	45.89	7.71
							12/6/2022	46.63	6.97
TACK-2	96585.663	1762596.168	62.13	N/A	58.20	67.95	12/7/2021	55.08	7.05
							8/24/2022	54.32	7.81
							12/6/2022	55.01	7.12
TACK-3	92823.247	1763085.348	39.72	39.72	39.54	42.60	12/7/2021	33.64	6.08
							8/24/2022	33.16	6.56
							12/6/2022	33.52	6.2
TACK-4	92879.441	1761785.167	41.01	N/A	38.07	44.44	12/7/2021	35.41	5.60
							8/24/2022	35.02	5.99
							12/6/2022	35.23	5.78
TACK-5	90914.953	1762582.230	36.62	N/A	34.06	41.75	12/7/2021	32.36	4.26
							8/24/2022	32.06	4.56
							12/6/2022	32.15	4.47
TACK-6	90646.121	1764213.577	39.74	N/A	36.51	44.50	12/7/2021	35.56	4.18
							8/24/2022	35.29	4.45
							12/6/2022	35.4	4.34
TACK-7	90965.234	1760047.944	33.29	N/A	30.67	37.65	12/7/2021	29.28	4.01
							8/24/2022	29.04	4.25
							12/6/2022	28.99	4.3
TACK-8	89893.465	1757570.687	17.23	17.55	17.45	23.60	12/7/2021	14.67	2.56
							8/24/2022	14.26	2.97
							12/6/2022	14.39	2.84
TACK-9	92447.958	1759692.796	34.26	34.75	34.75	40.85	12/7/2021	29.37	4.89
							8/24/2022	29.10	5.16
							12/6/2022	29.07	5.19
TACK-10	95409.971	1762026.022	50.00	50.20	50.12	55.00	12/7/2021	43.35	6.65
							8/24/2022	42.72	7.28
							12/6/2022	43.22	6.78
Leasehold Property Wells									
LB-1	94981.816	1760028.768	38.89	39.20	39.18	31.60	12/7/2021	Dry	Dry
							8/24/2022	Dry	Dry
							12/6/2022	Dry	Dry
LB-2	94803.117	1760075.696	38.31	38.64	38.61	30.72	12/7/2021	Dry	Dry
							8/24/2022	Dry	Dry
							12/6/2022	Dry	Dry
LB-3	94817.357	1760012.641	37.16	38.73	38.71	39.15	12/7/2021	31.96	5.20
							8/24/2022	31.59	5.57
							12/6/2022	31.85	5.31
LB-4	94904.440	1760106.704	38.98	39.17	39.15	39.20	12/7/2021	32.74	6.24
							8/24/2022	32.32	6.66
							12/6/2022	32.58	6.4

Notes

Elevation survey of ACK-designated wells completed by Blackwell and Associates, Inc. on December 22, 2020. Survey datum Mass Island NAD 83 (2011) Epoch 2010.00.

Elevation survey of TACK-designated and Leasehold Property wells completed by Blackwell and Associates, Inc. on December 15, 2021. Survey datum Mass Island NAD 83 (2011) Epoch 2010.00.

*Well elevation taken from edge of standpipe.

Definitions

NAD = North American Datum

ft = foot/feet

amsl = above mean sea level

Dry = well was observed to be dry

N/A = Not applicable. No casing was installed around PVC stickup of this temporary well.

Table 6
Provision of Bottled Water by Study Area
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

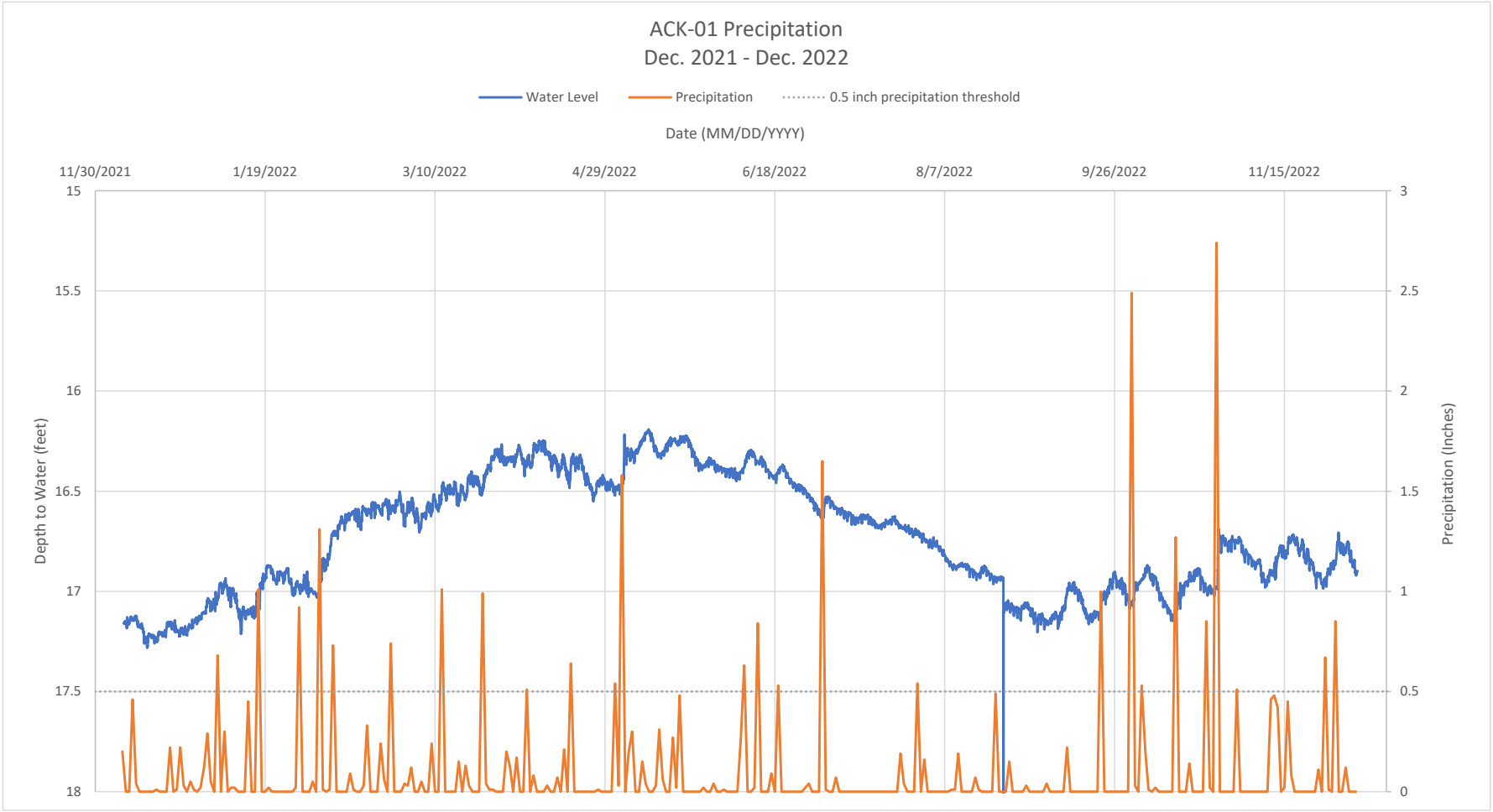
Property ID	Receiving Water	Bottled Water Supplier	Reason for Provision of Bottled Water
Nobadeer Way Study Area			
XT	Yes	Island Source	PFAS Detected
IP	Yes	Island Source	PFAS Detected
West Side Area			
HZ	Yes	Nantucket Pure	PFAS Detected
RB	Yes	Island Source	PFAS Detected
IE	Yes	Island Source	PFAS Detected
HM	Yes	Island Source	PFAS Detected
DM	Yes	Island Source	PFAS Detected
YI	Yes	Island Source	PFAS Detected

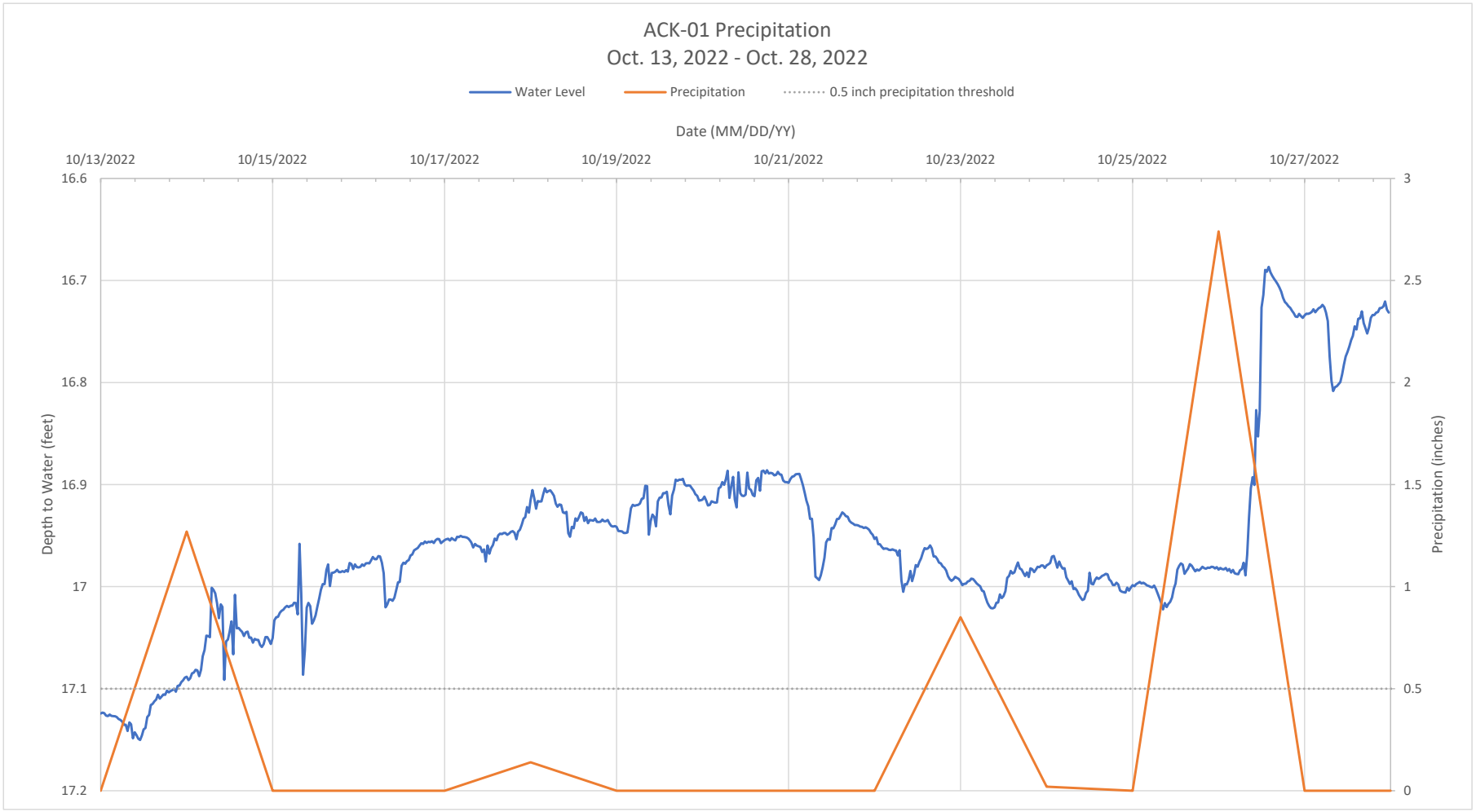
NOTES

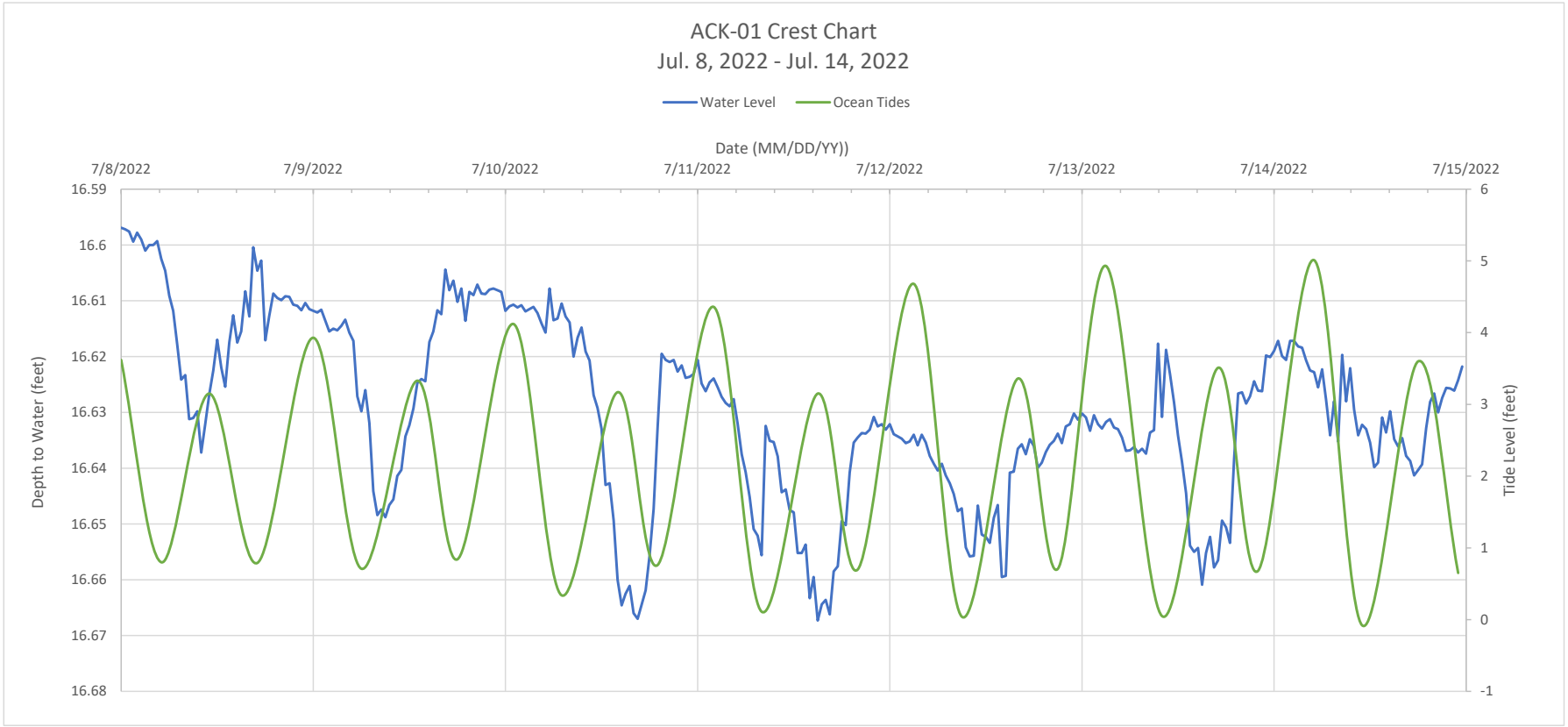
PFAS = per- and polyfluoroalkyl substances

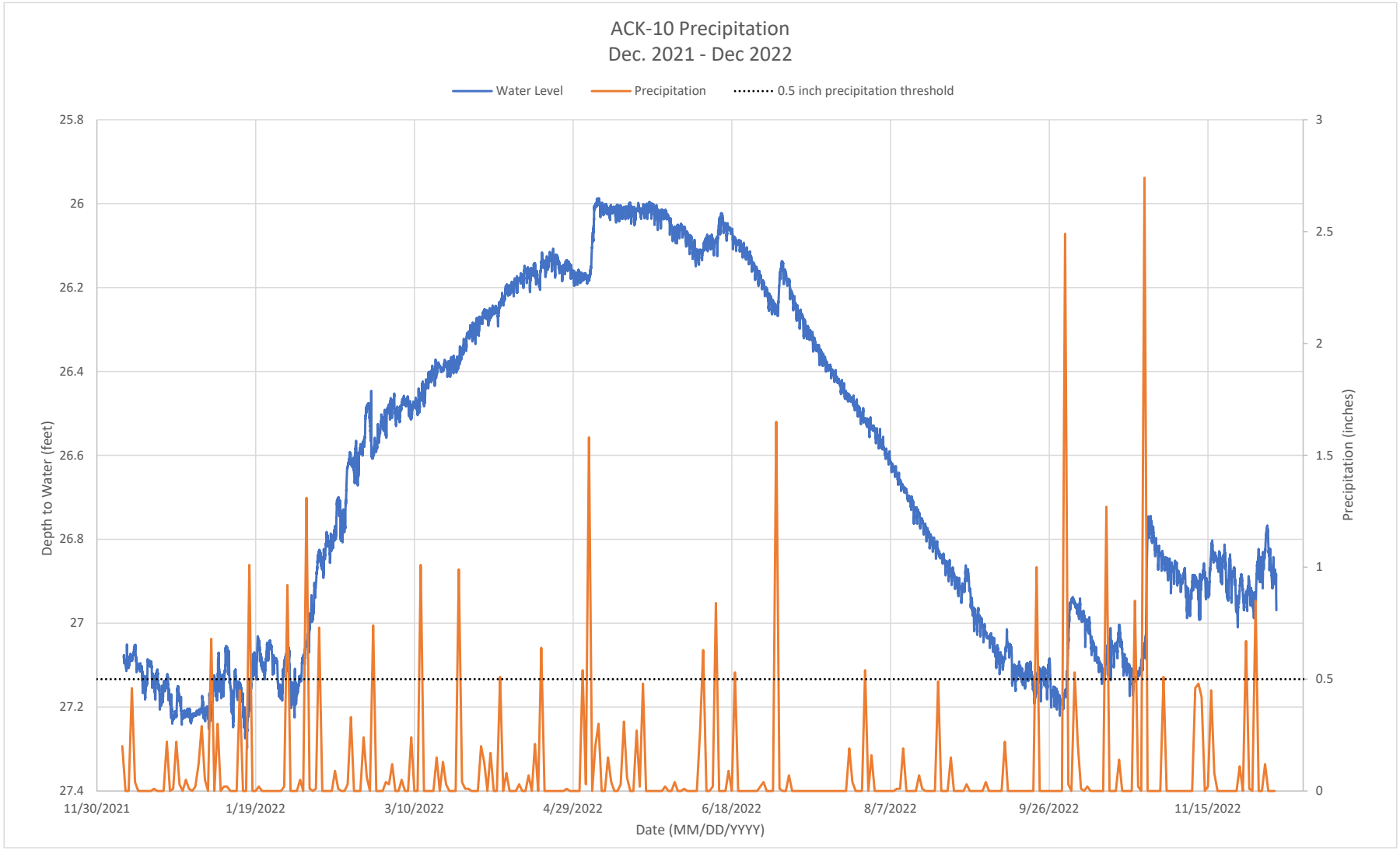
APPENDIX A

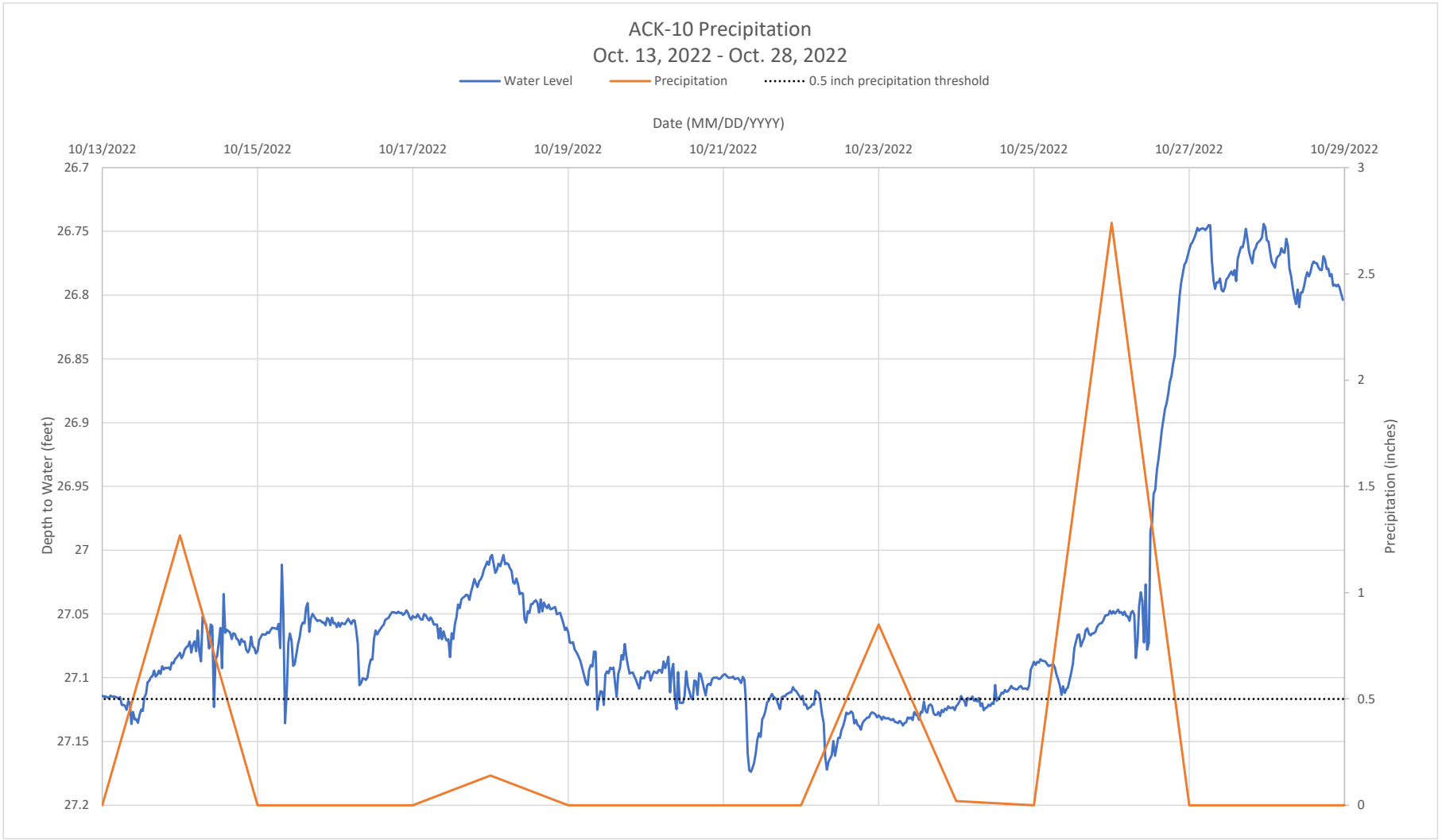
TRANSDUCER MEASUREMENT GRAPHS

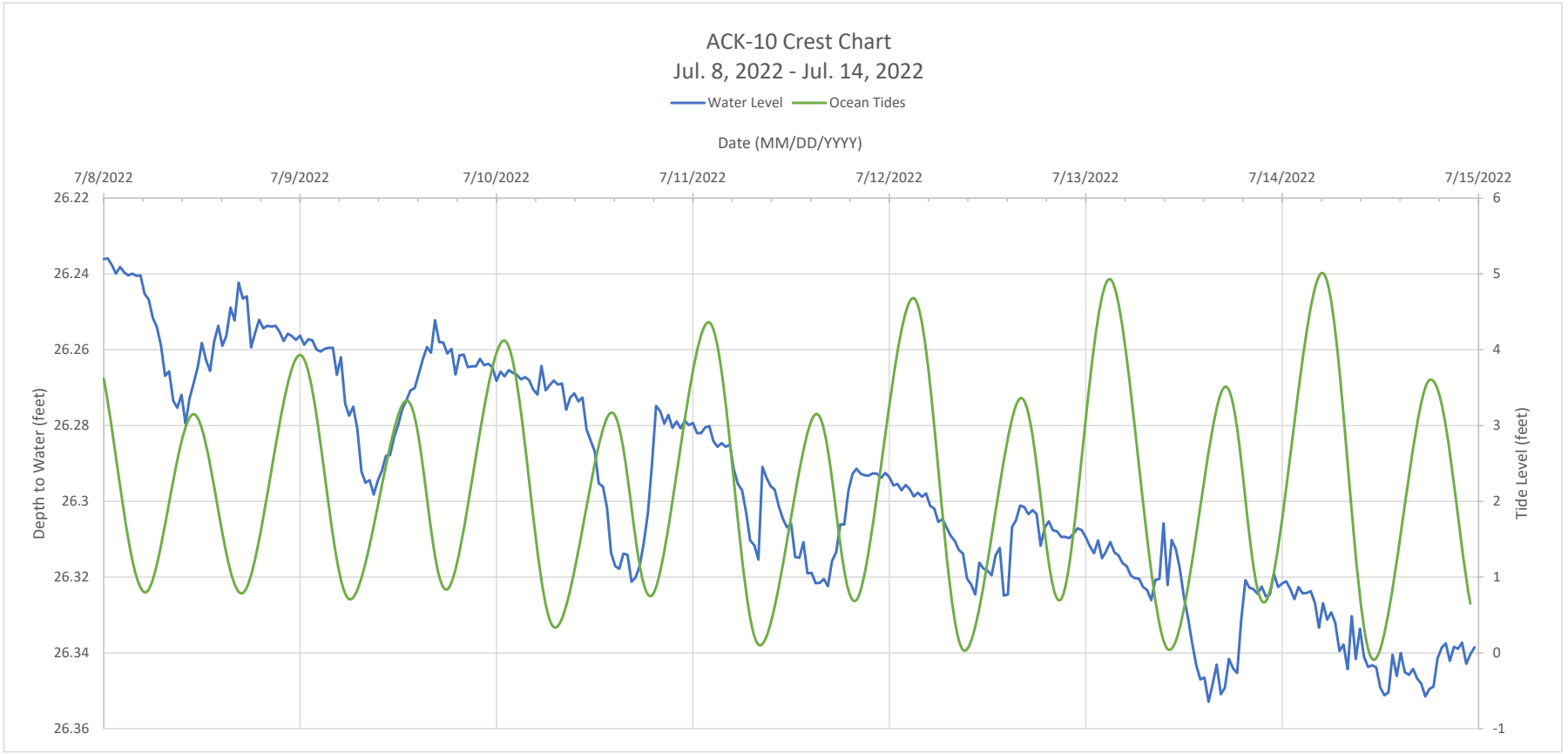

ACK-01 Precipitation
Dec. 2021 - Dec. 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Date (MM/DD/YYYY)
11/30/2021
1/19/2022
3/10/2022
4/29/2022
6/18/2022
8/7/2022
9/26/2022
11/15/2022
Depth to Water (feet)
15
15.5
16
16.5
17
17.5
18
Precipitation (Inches)
3
2.5
2
1.5
1
0.5
0

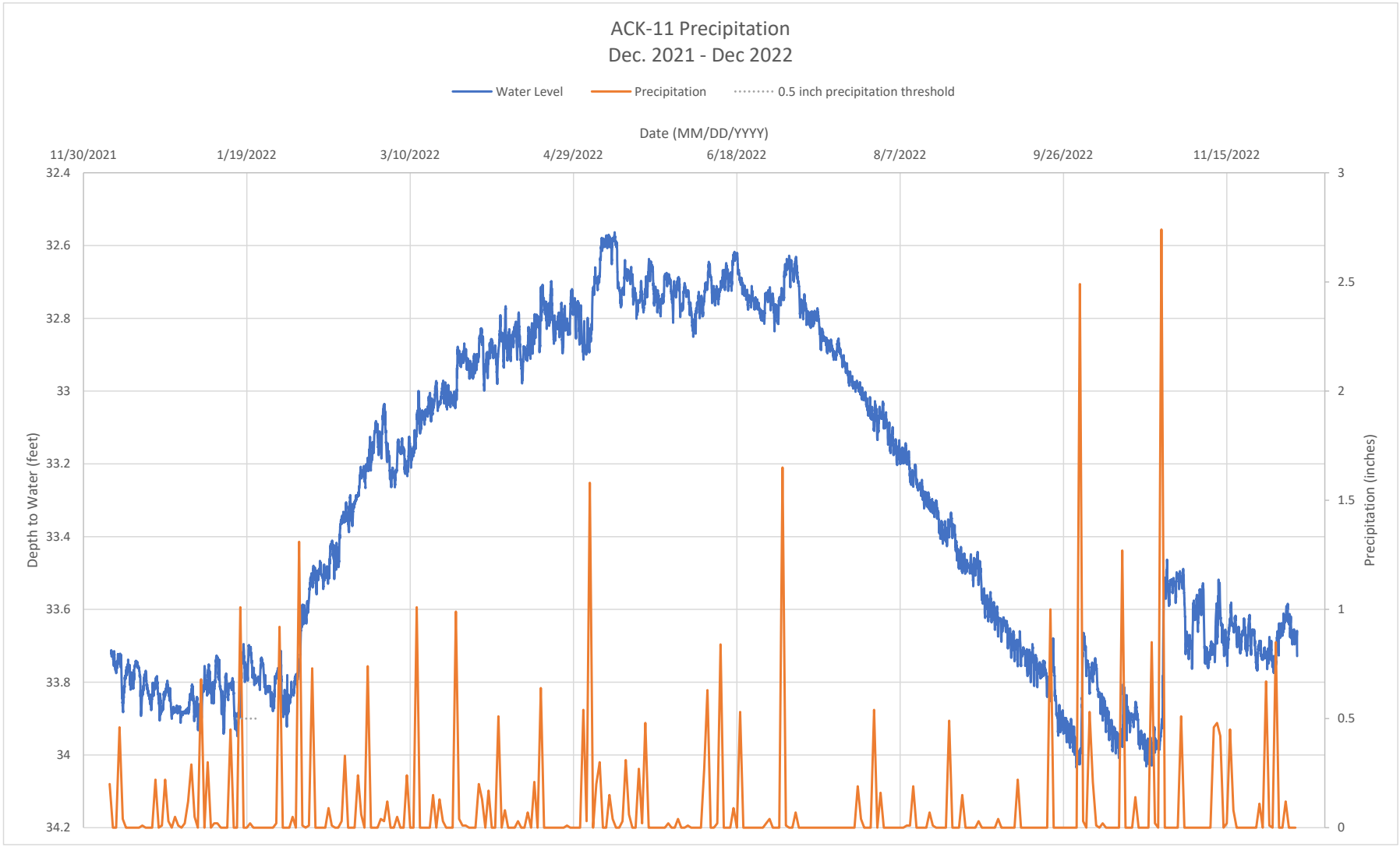

ACK-01 Precipitation
Oct. 13, 2022 - Oct. 28, 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Date (MM/DD/YY)
10/13/2022
10/15/2022
10/17/2022
10/19/2022
10/21/2022
10/23/2022
10/25/2022
10/27/2022
Depth to Water (feet)
16.6
16.7
16.8
16.9
17
17.1
17.2
Precipitation (inches)
3
2.5
2
1.5
1
0.5
0

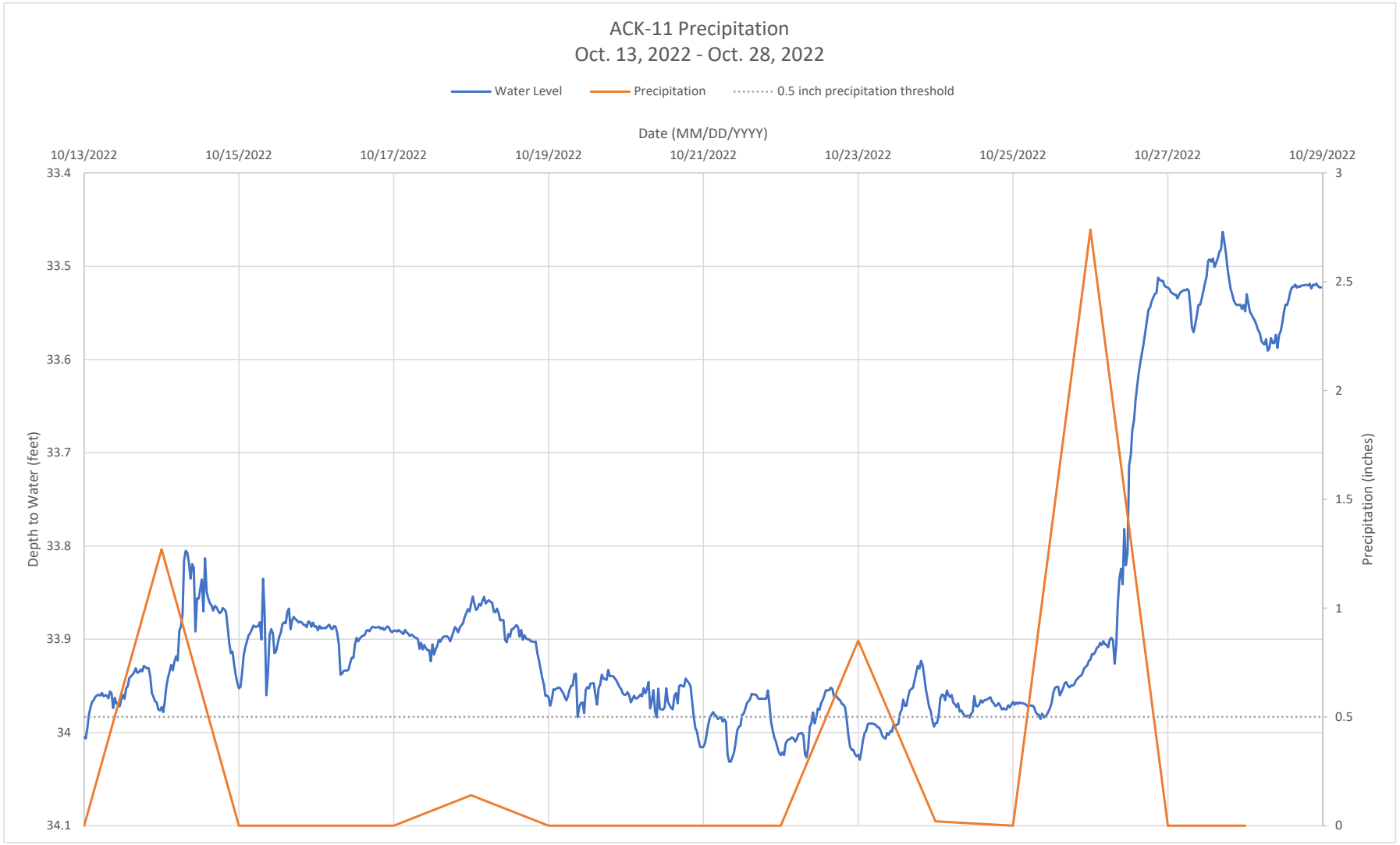

ACK-01 Crest Chart
Jul. 8, 2022 - Jul. 14, 2022
Water Level
Ocean Tides
Date (MM/DD/YY))
7/8/2022
7/9/2022
7/10/2022
7/11/2022
7/12/2022
7/13/2022
7/14/2022
7/15/2022
Depth to Water (feet)
16.59
16.6
16.61
16.62
16.63
16.64
16.65
16.66
16.67
16.68
Tide Level (feet)
6
5
4
3
2
1
0
-1

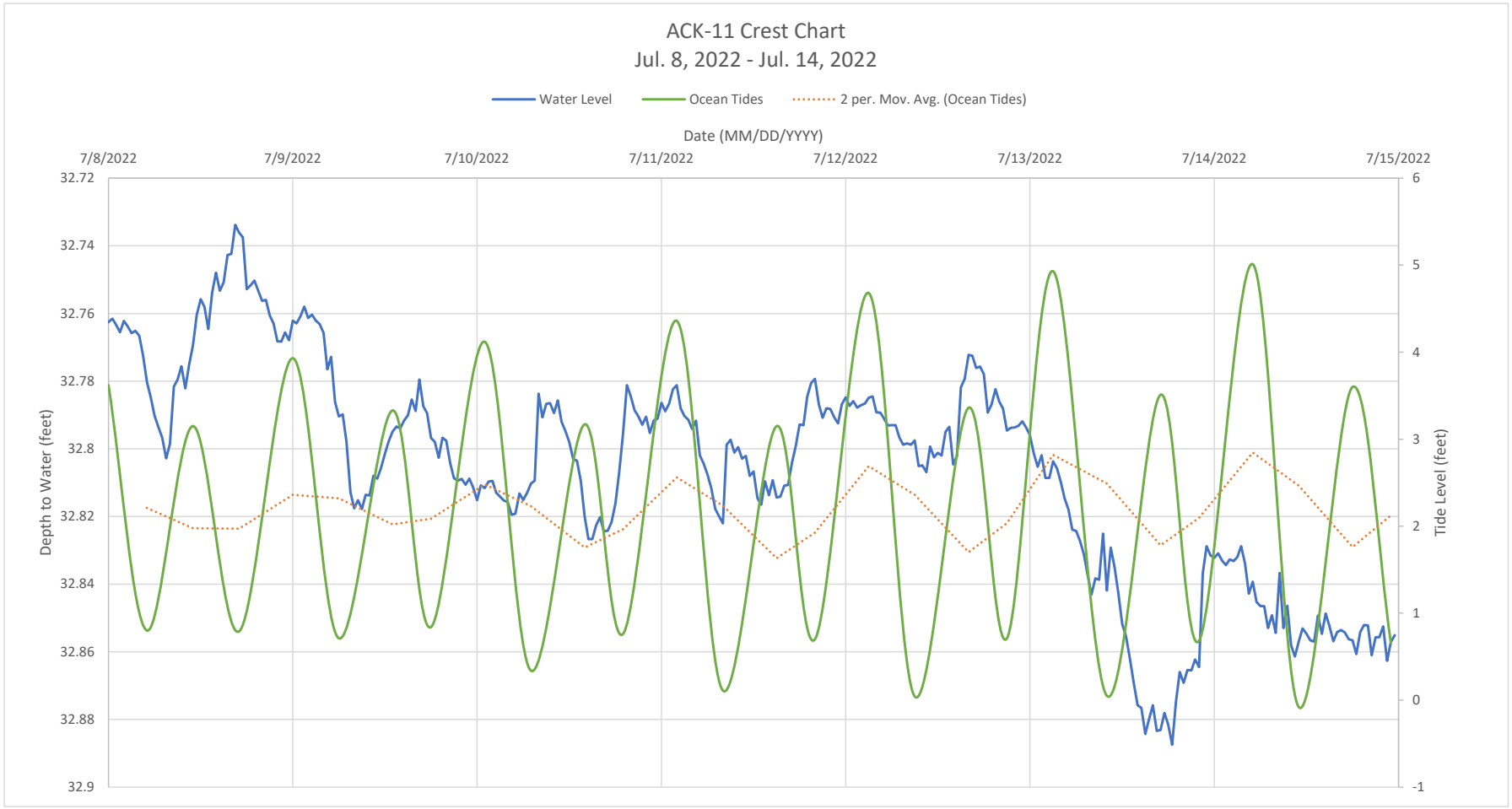

ACK-10 Precipitation
Dec. 2021 - Dec 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Depth to Water (feet)
25.8
26
26.2
26.4
26.6
26.8
27
27.2
27.4
Precipitation (inches)
3
2.5
2
1.5
1
0.5
0
11/30/2021
1/19/2022
3/10/2022
4/29/2022
6/18/2022
8/7/2022
9/26/2022
11/15/2022
Date (MM/DD/YYYY)

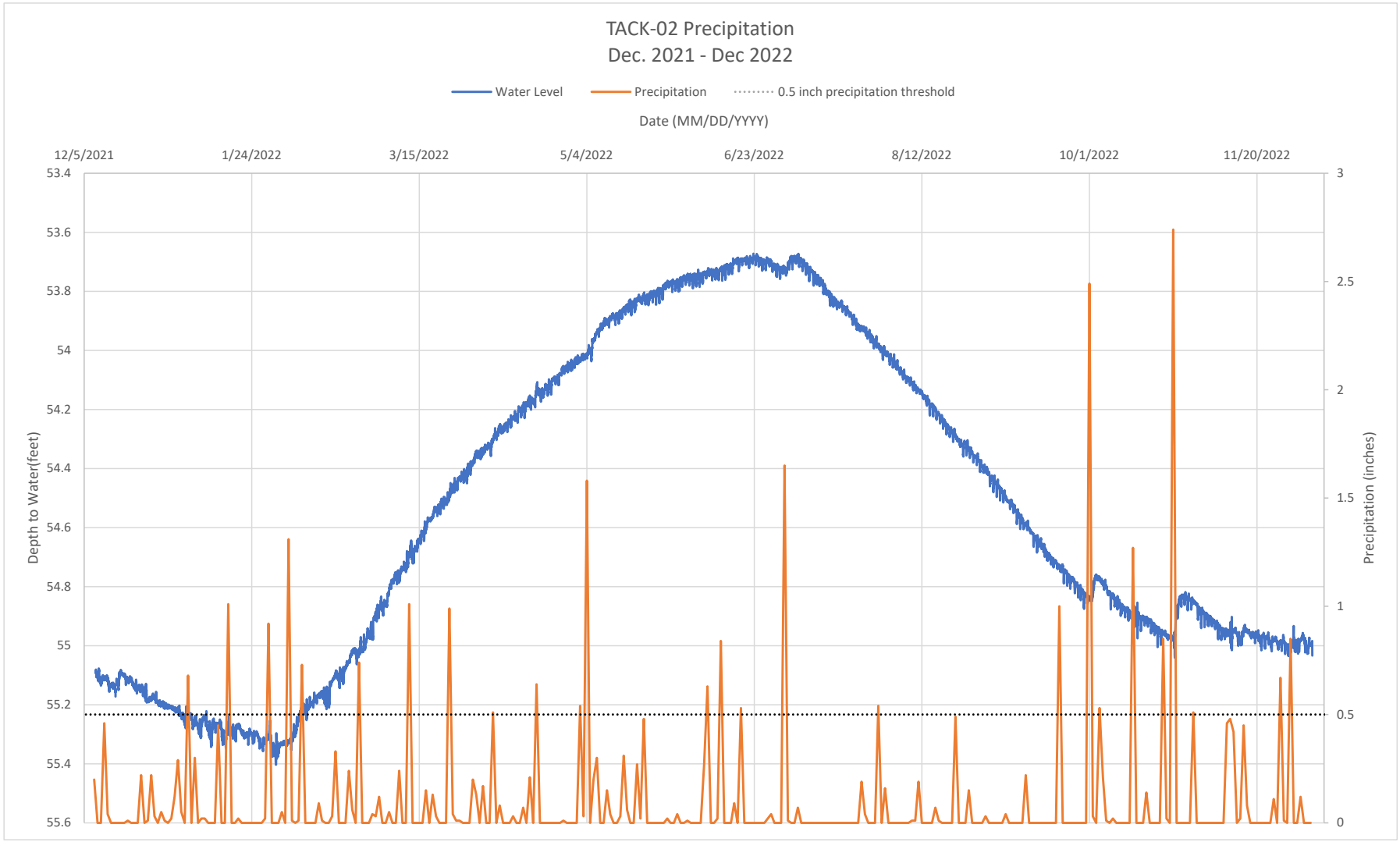

ACK-10 Precipitation
Oct. 13, 2022 - Oct. 28, 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Date (MM/DD/YYYY)
10/13/2022
10/15/2022
10/17/2022
10/19/2022
10/21/2022
10/23/2022
10/25/2022
10/27/2022
10/29/2022
Depth to Water (feet)
26.7
26.75
26.8
26.85
26.9
26.95
27
27.05
27.1
27.15
27.2
Precipitation (inches)
3
2.5
2
1.5
1
0.5
0

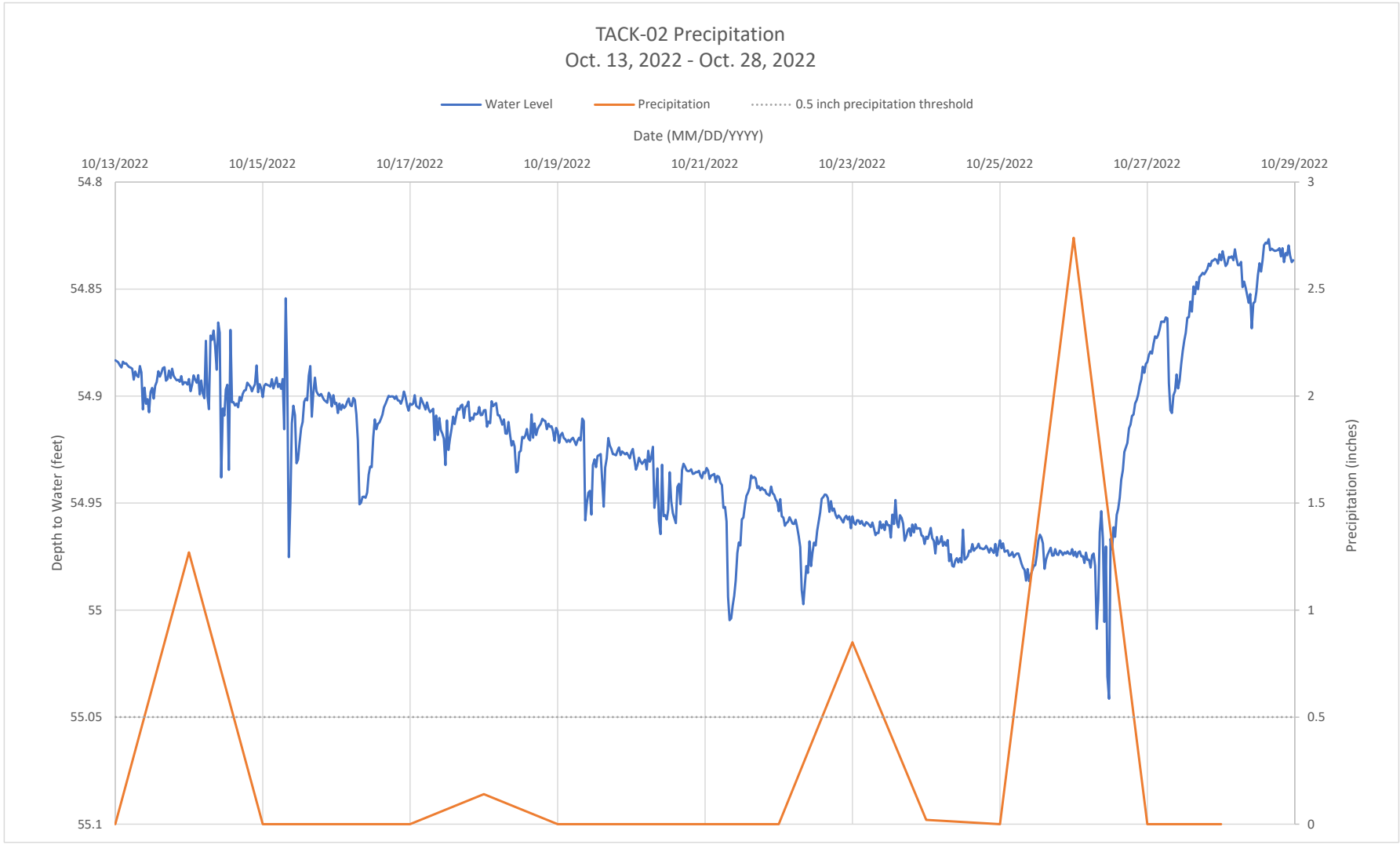

ACK-10 Crest Chart
Jul. 8, 2022 - Jul. 14, 2022
Water Level
Ocean Tides
Date (MM/DD/YYYY)
7/8/2022
7/9/2022
7/10/2022
7/11/2022
7/12/2022
7/13/2022
7/14/2022
7/15/2022
Depth to Water (feet)
26.22
26.24
26.26
26.28
26.3
26.32
26.34
26.36
Tide Level (feet)
6
5
4
3
2
1
0
-1

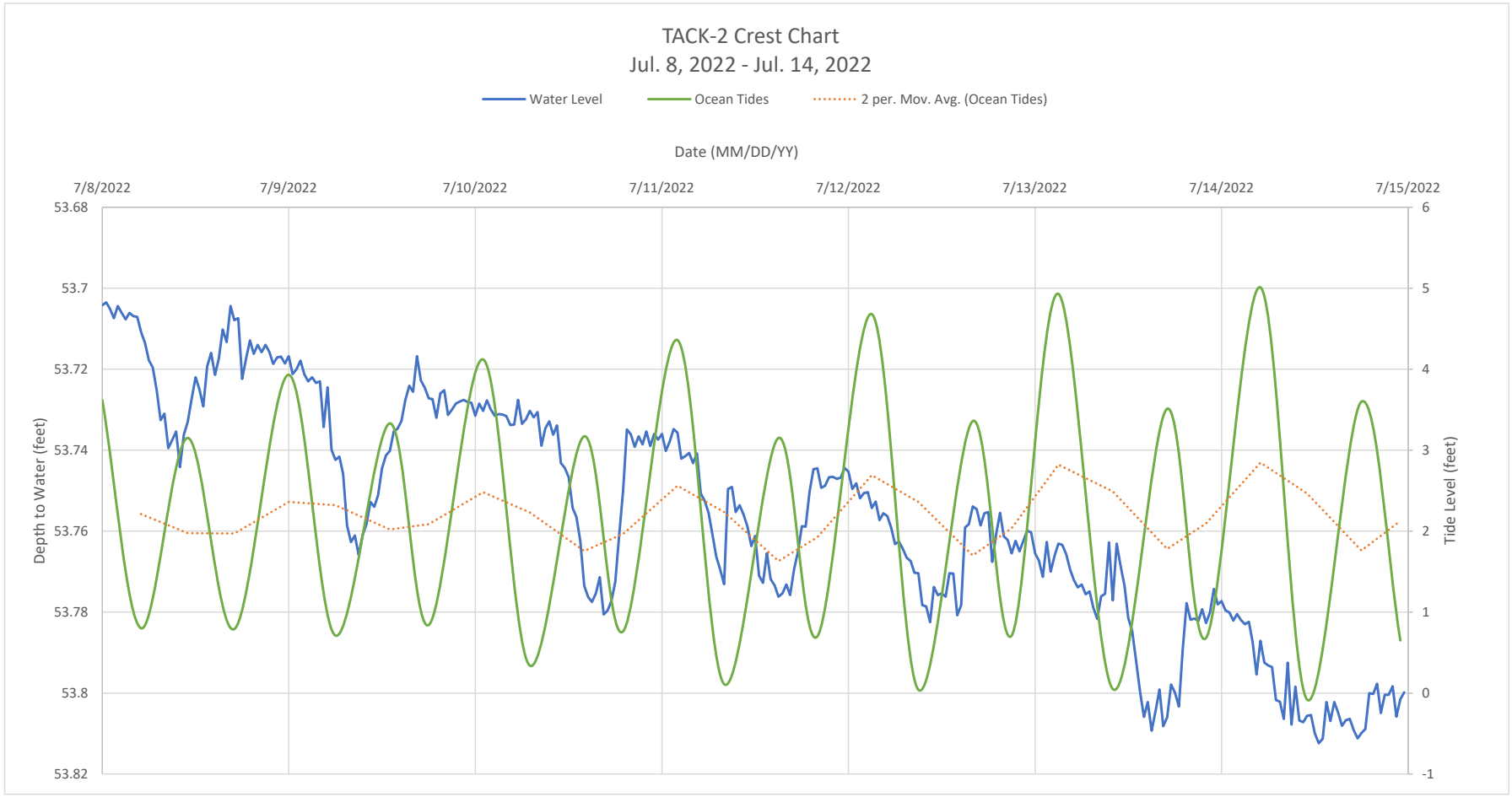

ACK-11 Precipitation
Dec. 2021 - Dec 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Date (MM/DD/YYYY)
11/30/2021
1/19/2022
3/10/2022
4/29/2022
6/18/2022
8/7/2022
9/26/2022
11/15/2022
Depth to Water (feet)
32.4
32.6
32.8
33
33.2
33.4
33.6
33.8
34
34.2
Precipitation (inches)
3
2.5
2
1.5
1
0.5
0

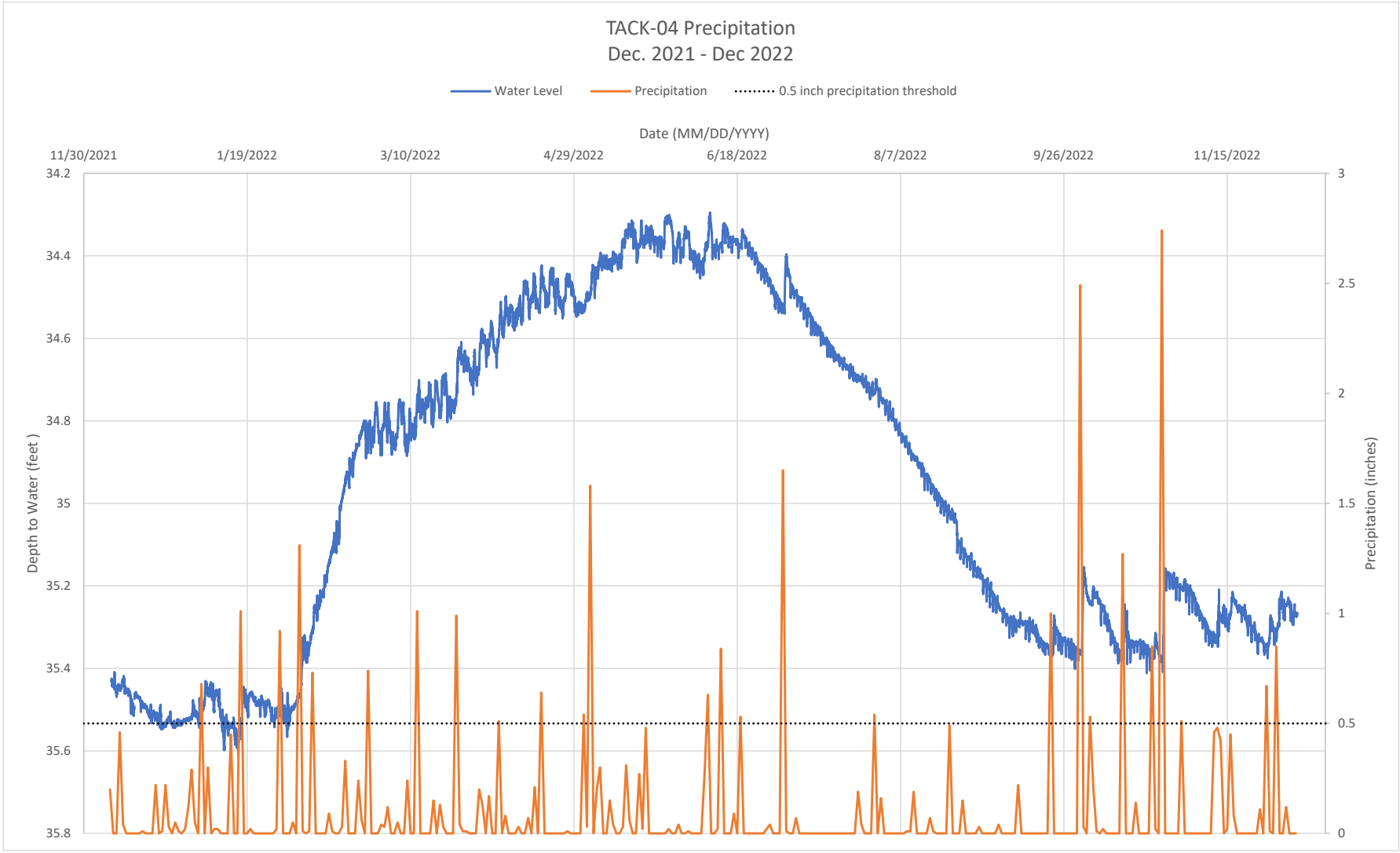

ACK-11 Precipitation
Oct. 13, 2022 - Oct. 28, 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Date (MM/DD/YYYY)
10/13/2022
10/15/2022
10/17/2022
10/19/2022
10/21/2022
10/23/2022
10/25/2022
10/27/2022
10/29/2022
Depth to Water (feet)
33.4
33.5
33.6
33.7
33.8
33.9
34
34.1
Precipitation (inches)
3
2.5
2
1.5
1
0.5
0

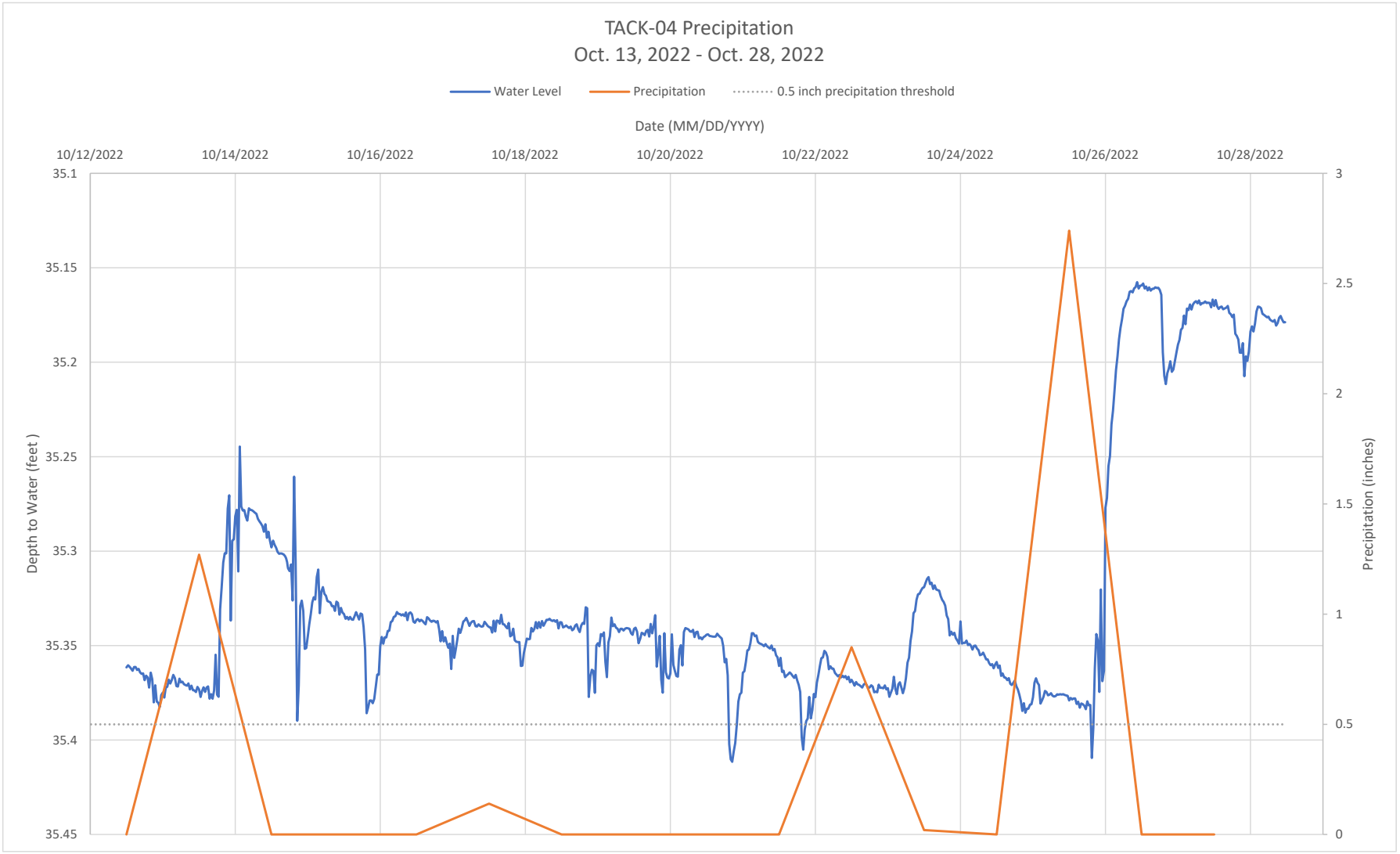

ACK-11 Crest Chart
Jul. 8, 2022 - Jul. 14, 2022
Water Level
Ocean Tides
2 per. Mov. Avg. (Ocean Tides)
Date (MM/DD/YYYY)
7/8/2022
7/9/2022
7/10/2022
7/11/2022
7/12/2022
7/13/2022
7/14/2022
7/15/2022
Depth to Water (feet)
32.72
32.74
32.76
32.78
32.8
32.82
32.84
32.86
32.88
32.9
Tide Level (feet)
6
5
4
3
2
1
0
-1

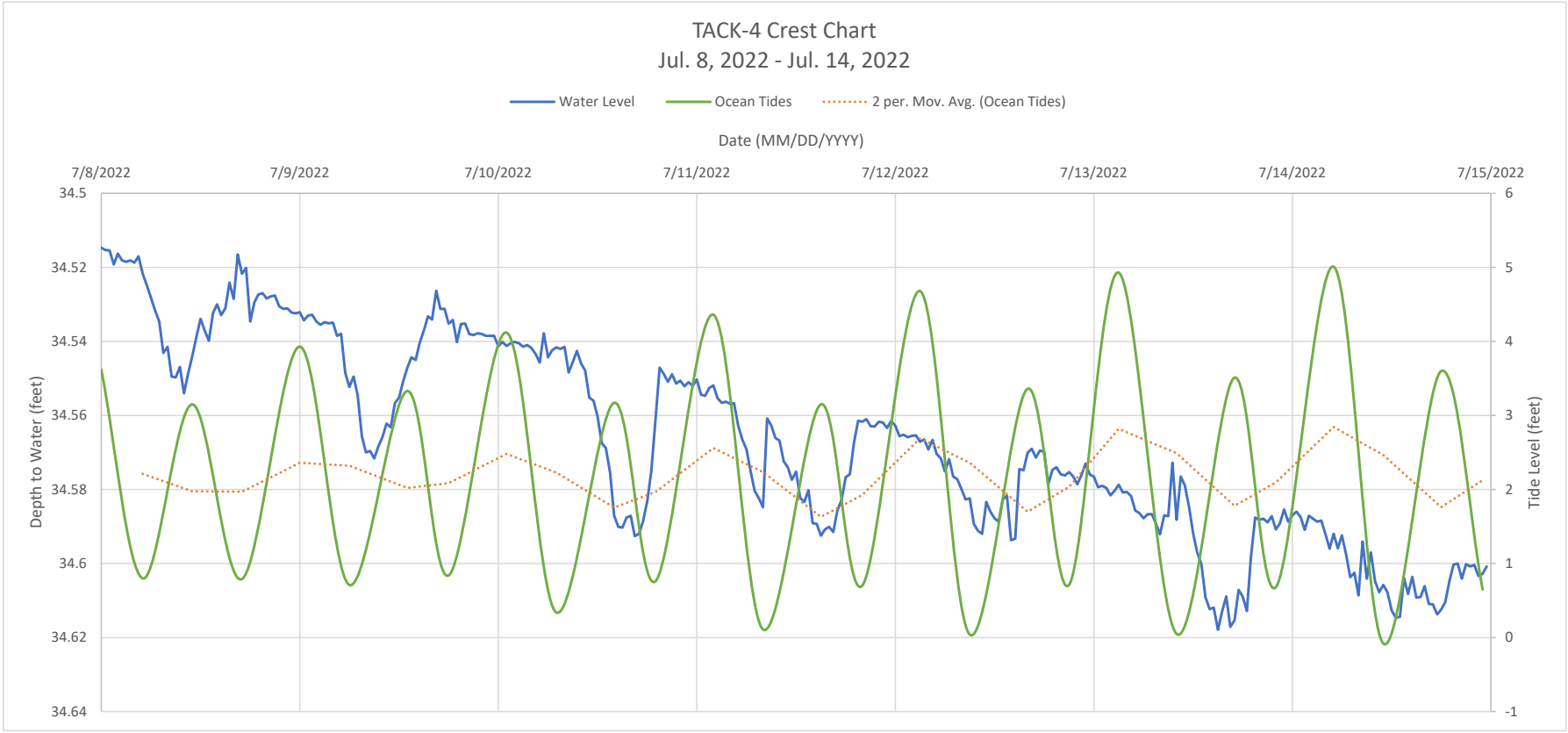

TACK-02 Precipitation
Dec. 2021 - Dec 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Date (MM/DD/YYYY)
12/5/2021
1/24/2022
3/15/2022
5/4/2022
6/23/2022
8/12/2022
10/1/2022
11/20/2022
Depth to Water(feet)
53.4
53.6
53.8
54
54.2
54.4
54.6
54.8
55
55.2
55.4
55.6
Precipitation (inches)
3
2.5
2
1.5
1
0.5
0


TACK-02 Precipitation
Oct. 13, 2022 - Oct. 28, 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Date (MM/DD/YYYY)
10/13/2022
10/15/2022
10/17/2022
10/19/2022
10/21/2022
10/23/2022
10/25/2022
10/27/2022
10/29/2022
54.8
54.85
54.9
54.95
55
55.05
55.1
Depth to Water (feet)
3
2.5
2
1.5
1
0.5
0
Precipitation (inches)


TACK-2 Crest Chart
Jul. 8, 2022 - Jul. 14, 2022
Water Level
Ocean Tides
2 per. Mov. Avg. (Ocean Tides)
Date (MM/DD/YY)
7/8/2022
7/9/2022
7/10/2022
7/11/2022
7/12/2022
7/13/2022
7/14/2022
7/15/2022
Depth to Water (feet)
53.68
53.7
53.72
53.74
53.76
53.78
53.8
53.82
Tide Level (feet)
6
5
4
3
2
1
0
-1


TACK-04 Precipitation
Dec. 2021 - Dec 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Date (MM/DD/YYYY)
11/30/2021
1/19/2022
3/10/2022
4/29/2022
6/18/2022
8/7/2022
9/26/2022
11/15/2022
Depth to Water (feet)
34.2
34.4
34.6
34.8
35
35.2
35.4
35.6
35.8
Precipitation (inches)
3
2.5
2
1.5
1
0.5
0


TACK-04 Precipitation
Oct. 13, 2022 - Oct. 28, 2022
Water Level
Precipitation
0.5 inch precipitation threshold
Date (MM/DD/YYYY)
10/12/2022
10/14/2022
10/16/2022
10/18/2022
10/20/2022
10/22/2022
10/24/2022
10/26/2022
10/28/2022
Depth to Water (feet)
35.1
35.15
35.2
35.25
35.3
35.35
35.4
35.45
Precipitation (inches)
3
2.5
2
1.5
1
0.5
0


TACK-4 Crest Chart
Jul. 8, 2022 - Jul. 14, 2022
Water Level
Ocean Tides
2 per. Mov. Avg. (Ocean Tides)
Date (MM/DD/YYYY)
7/8/2022
7/9/2022
7/10/2022
7/11/2022
7/12/2022
7/13/2022
7/14/2022
7/15/2022
Depth to Water (feet)
34.5
34.52
34.54
34.56
34.58
34.6
34.62
34.64
Tide Level (feet)
6
5
4
3
2
1
0
-1

APPENDIX B

LABORATORY ANALYTICAL DATA

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-195902-1

WESTON SAMPLE IDs: FB-08232022, DX-SPGT-0822, SK-SPGT-0822, AW-SPGT-0822, JQ-SPGT-0822, JQ-SPGT-0822 DUP, BI-SPGT-0822, WG-SPGT-0822, HL-PT-0822, FB-08242022, FFGAC-0822-EFF, FFGAC-0822-MID, FFGAC-0822-INF, FFGAC-0822-INF DUP

Data Reviewed	**Fraction**				**Comments**
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				FFGAC-0822-INF and FFGAC-0822-INF DUP: RL raised due to matrix interference. FFGAC-0822-MID: PFBA, PFHxA, PFHpA: 10x dilution. FFGAC-0822-INF and FFGAC-0822-INF DUP: 6:2 FTS: 10x dilution.
Preservation/Log Sheet	√				
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	LCS 410-290734/2-A/ LCSD 410-290734/3-A				NMeFOSA high. Associated samples were ND. No qualifiers needed.
ICAL/ICV/CCV	√				
Lab Duplicates	NA				
Field Duplicates	√				FFGAC-0822-INF and FFGAC-0822-INF DUP; JQ-SPGT-0822 and JQ-SPGT-0822 DUP

Isotope Dilution Recoveries	FB-08232022 FFGAC-0822-INF FFGAC-0822-INF DUP FFGAC-0822-EFF FFGAC-0822-MID				FB-08232022: d5-NEtFOSAA, 13C2-PFDA, and 13C2-PFHxA low: qualify all non-detects as estimated UJ. FFGAC-0822-INF and FFGAC-0822-INF DUP: M2-4:2-FTS, C4-PFHpA, and 13C HFPO-DA high: qualify 4:2 FTS and PHFpA as estimated J; qualify HFPO-DA as estimated non-detect, UJ. FFGAC-0822-EFF: d3-NMePFOSA and d5-NEtPFOSA low: qualify NMeFOSA and NEtFOSA as estimated non-detect, UJ. FFGAC-0822-MID: d7-N-MeFOSE-M, d3-NMePFOSA, d9-N-EtFOSE-M, and d5-NEtPFOSA low: qualify NMeFOSE, NMeFOSA, NEtFOSE, and NEtFOSA as estimated non-detect, UJ.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: UJ, J

Data Reviewer Initials: RBE
Date: 2/7/2023

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 410-95902-1
Client Project/Site: Nantucket

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

Attn: Michael Kanarek

Elizabeth M. Zanar

Authorized for release by:
9/27/2022 8:25:07 AM

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

LINKS

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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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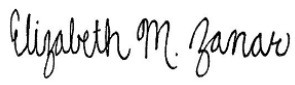

Elizabeth Zanar
Project Manager
9/27/2022 8:25:07 AM

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Definitions/Glossary

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

Job ID: 410-95902-1

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.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.
S1-	Surrogate recovery exceeds control limits, low 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 Environment Testing, LLC	Project #:	410-95902-1
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:** 09/27/2022

Job ID: 410-95902-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-95902-1

Receipt
The samples were received on 8/26/2022 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 1.6°C

PFAS
Method 537_DW: The recovery for the surrogate(s) in the following sample: FB-08232022 (410-95902-1) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for the surrogate(s) is again outside the QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) M2-4:2 FTS, 13C4 PFHpA and 13C3 HFPO-DA in the following samples: FFGAC-0822-INF (410-95902-13) and FFGAC-0822-INF DUP (410-95902-14) are outside the QC acceptance limits due to the matrix of the sample.

Method PFC_IDA: Reporting limits were raised for the following samples: FFGAC-0822-INF (410-95902-13) and FFGAC-0822-INF DUP (410-95902-14) due to interference from the sample matrix.

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: 410-95902-1

Client Sample ID: FB-08232022 — Lab Sample ID: 410-95902-1

No Detections.

Client Sample ID: DX-SPGT-0822 — Lab Sample ID: 410-95902-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	6.7		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	4.6		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: SK-SPGT-0822 — Lab Sample ID: 410-95902-3

No Detections.

Client Sample ID: AW-SPGT-0822 — Lab Sample ID: 410-95902-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	4.8		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	4.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: JQ-SPGT-0822 — Lab Sample ID: 410-95902-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.0		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	5.8		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	7.3		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: JQ-SPGT-0822 DUP — Lab Sample ID: 410-95902-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.0		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	6.2		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	7.4		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: BI-SPGT-0822 — Lab Sample ID: 410-95902-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	4.2		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	1.6		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	8.2		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	1.9		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: WG-SPGT-0822 — Lab Sample ID: 410-95902-8

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
Perfluorobutanesulfonic acid	4.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	8.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: HL-PT-0822 — Lab Sample ID: 410-95902-9

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

Client Sample ID: FB-08242022 — Lab Sample ID: 410-95902-10

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-95902-1

Client Sample ID: FFGAC-0822-EFF — Lab Sample ID: 410-95902-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
10:2 FTS	14		4.2		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	290		4.2		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	18		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	16		4.2		ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	8.6		2.5		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: FFGAC-0822-MID — Lab Sample ID: 410-95902-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	36		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	3.9		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	2.0		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
10:2 FTS	8.3		4.4		ng/L	1		EPA 537 (Mod)	Total/NA
4:2 Fluorotelomer sulfonic acid	6.6		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	33		4.4		ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	6.5		2.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanoic acid - DL	610		18		ng/L	10		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid - DL	520		44		ng/L	10		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid - DL	530		18		ng/L	10		EPA 537 (Mod)	Total/NA

Client Sample ID: FFGAC-0822-INF — Lab Sample ID: 410-95902-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3700	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	240	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	170	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	82	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorodecanoic acid	47	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	860	cn	50		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	1500	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
4:2 Fluorotelomer sulfonic acid	41	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	1400	cn	30		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid - DL	32000		500		ng/L	10		EPA 537 (Mod)	Total/NA

Client Sample ID: FFGAC-0822-INF DUP — Lab Sample ID: 410-95902-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	4000	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	260	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	170	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	77	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorodecanoic acid	49	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	860	cn	50		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	1400	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
4:2 Fluorotelomer sulfonic acid	41	cn	20		ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	1400	cn	30		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid - DL	30000		500		ng/L	10		EPA 537 (Mod)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB-08232022

Date Collected: 08/23/22 09:30
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-1
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	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluoroheptanoic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluorooctanoic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluorononanoic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluorodecanoic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluorotridecanoic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluorotetradecanoic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluorobutanesulfonic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluorohexanesulfonic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluorooctanesulfonic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
NEtFOSAA	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
NMeFOSAA	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluoroundecanoic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1
Perfluorododecanoic acid	<1.7	cn	1.7		ng/L		08/31/22 11:10	09/02/22 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*31*	*S1- cn*	*70 - 130*	*08/31/22 11:10*	*09/02/22 20:22*	*1*
13C2 PFDA	*64*	*S1- cn*	*70 - 130*	*08/31/22 11:10*	*09/02/22 20:22*	*1*
13C2 PFHxA	*10*	*S1- cn*	*70 - 130*	*08/31/22 11:10*	*09/02/22 20:22*	*1*

Client Sample ID: DX-SPGT-0822

Date Collected: 08/23/22 09:40
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-2
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		08/31/22 11:10	09/02/22 20:33	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluorohexanesulfonic acid	**6.7**		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluorooctanesulfonic acid	**4.6**		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
NEtFOSAA	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
NMeFOSAA	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*08/31/22 11:10*	*09/02/22 20:33*	*1*
13C2 PFDA	*101*		*70 - 130*	*08/31/22 11:10*	*09/02/22 20:33*	*1*
13C2 PFHxA	*98*		*70 - 130*	*08/31/22 11:10*	*09/02/22 20:33*	*1*

Client Sample ID: SK-SPGT-0822

Lab Sample ID: 410-95902-3

Date Collected: 08/23/22 10:30

Matrix: Drinking Water

Date Received: 08/26/22 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		08/31/22 11:10	09/02/22 20:56	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
NEtFOSAA	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
NMeFOSAA	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*08/31/22 11:10*	*09/02/22 20:56*	*1*
13C2 PFDA	*100*		*70 - 130*	*08/31/22 11:10*	*09/02/22 20:56*	*1*
13C2 PFHxA	*99*		*70 - 130*	*08/31/22 11:10*	*09/02/22 20:56*	*1*

Client Sample ID: AW-SPGT-0822

Lab Sample ID: 410-95902-4

Date Collected: 08/23/22 11:00

Matrix: Drinking Water

Date Received: 08/26/22 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	**4.8**		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluorohexanesulfonic acid	**4.1**		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluorooctanesulfonic acid	**5.9**		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
NEtFOSAA	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
NMeFOSAA	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:08*	*1*
13C2 PFDA	*103*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:08*	*1*
13C2 PFHxA	*97*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:08*	*1*

Client Sample ID: JQ-SPGT-0822

Lab Sample ID: 410-95902-5

Date Collected: 08/23/22 11:25

Matrix: Drinking Water

Date Received: 08/26/22 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	**2.0**		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluorohexanesulfonic acid	**5.8**		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluorooctanesulfonic acid	**7.3**		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
NEtFOSAA	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
NMeFOSAA	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*103*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:19*	*1*
13C2 PFDA	*103*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:19*	*1*
13C2 PFHxA	*103*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:19*	*1*

Client Sample ID: JQ-SPGT-0822 DUP

Lab Sample ID: 410-95902-6

Date Collected: 08/23/22 11:25

Matrix: Drinking Water

Date Received: 08/26/22 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	**2.0**		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluorohexanesulfonic acid	**6.2**		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluorooctanesulfonic acid	**7.4**		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
NEtFOSAA	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
NMeFOSAA	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:31*	*1*
13C2 PFDA	*101*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:31*	*1*
13C2 PFHxA	*101*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:31*	*1*

Client Sample ID: BI-SPGT-0822

Lab Sample ID: 410-95902-7

Date Collected: 08/23/22 11:50

Matrix: Drinking Water

Date Received: 08/26/22 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	**4.2**		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluoroheptanoic acid	**1.6**		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluorononanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluorohexanesulfonic acid	**8.2**		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluorooctanesulfonic acid	**1.9**		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
NEtFOSAA	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
NMeFOSAA	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		08/31/22 11:10	09/02/22 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*99*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:42*	*1*
13C2 PFDA	*105*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:42*	*1*
13C2 PFHxA	*104*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:42*	*1*

Client Sample ID: WG-SPGT-0822

Lab Sample ID: 410-95902-8

Date Collected: 08/23/22 12:15

Matrix: Drinking Water

Date Received: 08/26/22 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	**2.9**		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluorobutanesulfonic acid	**4.2**		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluorohexanesulfonic acid	**8.9**		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
NEtFOSAA	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
NMeFOSAA	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*108*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:54*	*1*
13C2 PFDA	*110*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:54*	*1*
13C2 PFHxA	*106*		*70 - 130*	*08/31/22 11:10*	*09/02/22 21:54*	*1*

Client Sample ID: HL-PT-0822

Date Collected: 08/23/22 12:40
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-9

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		08/31/22 11:10	09/02/22 22:06	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluorohexanesulfonic acid	**2.5**		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
NEtFOSAA	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
NMeFOSAA	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/31/22 11:10	09/02/22 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*08/31/22 11:10*	*09/02/22 22:06*	*1*
13C2 PFDA	*98*		*70 - 130*	*08/31/22 11:10*	*09/02/22 22:06*	*1*
13C2 PFHxA	*99*		*70 - 130*	*08/31/22 11:10*	*09/02/22 22:06*	*1*

Client Sample ID: FB-08242022

Date Collected: 08/24/22 08:25
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-10

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorononanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
NEtFOSAA	<2.6		2.6		ng/L		08/29/22 16:13	08/30/22 23:04	1
NMeFOSAA	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
10:2 FTS	<4.3		4.3		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorobutanoic acid	<4.3		4.3		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1

Client Sample ID: FB-08242022

Lab Sample ID: 410-95902-10

Date Collected: 08/24/22 08:25

Matrix: Water

Date Received: 08/26/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	<2.6		2.6		ng/L		08/29/22 16:13	08/30/22 23:04	1
NMeFOSA	<2.6	*+	2.6		ng/L		08/29/22 16:13	08/30/22 23:04	1
NEtFOSE	<2.6		2.6		ng/L		08/29/22 16:13	08/30/22 23:04	1
NEtFOSA	<4.3		4.3		ng/L		08/29/22 16:13	08/30/22 23:04	1
HFPODA	<2.6		2.6		ng/L		08/29/22 16:13	08/30/22 23:04	1
DONA	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
9Cl-PF3ONS	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		08/29/22 16:13	08/30/22 23:04	1
6:2 Fluorotelomer sulfonic acid	<4.3		4.3		ng/L		08/29/22 16:13	08/30/22 23:04	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		08/29/22 16:13	08/30/22 23:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*110*		*10 - 200*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
M2-8:2 FTS	*97*		*33 - 200*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
M2-6:2 FTS	*104*		*17 - 200*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C5 PFHxA	*96*		*24 - 179*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C4 PFHpA	*98*		*31 - 182*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C8 PFOA	*93*		*48 - 162*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C9 PFNA	*105*		*51 - 167*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C6 PFDA	*98*		*49 - 163*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C7 PFUnA	*97*		*34 - 174*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C2-PFDoDA	*106*		*17 - 176*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C2 PFTeDA	*111*		*10 - 179*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C3 PFBS	*101*		*16 - 200*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C3 PFHxS	*102*		*28 - 188*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C8 PFOS	*104*		*51 - 159*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
d3-NMeFOSAA	*112*		*31 - 174*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
d5-NEtFOSAA	*88*		*29 - 195*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C8 FOSA	*89*		*10 - 168*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C4 PFBA	*102*		*42 - 165*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C5 PFPeA	*100*		*38 - 187*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
d7-N-MeFOSE-M	*89*		*10 - 178*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
d3-NMePFOSA	*59*		*10 - 155*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
d9-N-EtFOSE-M	*98*		*10 - 177*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
d5-NEtPFOSA	*87*		*10 - 159*	*08/29/22 16:13*	*08/30/22 23:04*	*1*
13C3 HFPO-DA	*98*		*17 - 185*	*08/29/22 16:13*	*08/30/22 23:04*	*1*

Client Sample ID: FFGAC-0822-EFF

Lab Sample ID: 410-95902-11

Date Collected: 08/24/22 08:35

Matrix: Water

Date Received: 08/26/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorononanoic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1

Client Sample ID: FFGAC-0822-EFF
Date Collected: 08/24/22 08:35
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-11
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
NEtFOSAA	<2.5		2.5		ng/L		09/06/22 09:44	09/13/22 21:15	1
NMeFOSAA	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
10:2 FTS	**14**		4.2		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorobutanoic acid	**290**		4.2		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluoropentanoic acid	**18**		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
NMeFOSE	<2.5		2.5		ng/L		09/06/22 09:44	09/13/22 21:15	1
NMeFOSA	<2.5		2.5		ng/L		09/06/22 09:44	09/13/22 21:15	1
NEtFOSE	<2.5		2.5		ng/L		09/06/22 09:44	09/13/22 21:15	1
NEtFOSA	<4.2		4.2		ng/L		09/06/22 09:44	09/13/22 21:15	1
HFPODA	<2.5		2.5		ng/L		09/06/22 09:44	09/13/22 21:15	1
DONA	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
9Cl-PF3ONS	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		09/06/22 09:44	09/13/22 21:15	1
6:2 Fluorotelomer sulfonic acid	**16**		4.2		ng/L		09/06/22 09:44	09/13/22 21:15	1
8:2 Fluorotelomer sulfonic acid	**8.6**		2.5		ng/L		09/06/22 09:44	09/13/22 21:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*134*		*10 - 200*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
M2-8:2 FTS	*98*		*33 - 200*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
M2-6:2 FTS	*111*		*17 - 200*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C5 PFHxA	*83*		*24 - 179*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C4 PFHpA	*82*		*31 - 182*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C8 PFOA	*87*		*48 - 162*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C9 PFNA	*99*		*51 - 167*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C6 PFDA	*82*		*49 - 163*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C7 PFUnA	*85*		*34 - 174*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C2-PFDoDA	*68*		*17 - 176*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C2 PFTeDA	*42*		*10 - 179*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C3 PFBS	*96*		*16 - 200*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C3 PFHxS	*86*		*28 - 188*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
13C8 PFOS	*88*		*51 - 159*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
d3-NMeFOSAA	*76*		*31 - 174*	*09/06/22 09:44*	*09/13/22 21:15*	*1*
d5-NEtFOSAA	*80*		*29 - 195*	*09/06/22 09:44*	*09/13/22 21:15*	*1*

Client Sample ID: FFGAC-0822-EFF

Lab Sample ID: 410-95902-11

Date Collected: 08/24/22 08:35

Matrix: Water

Date Received: 08/26/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	33		10 - 168	09/06/22 09:44	09/13/22 21:15	1
13C4 PFBA	87		42 - 165	09/06/22 09:44	09/13/22 21:15	1
13C5 PFPeA	97		38 - 187	09/06/22 09:44	09/13/22 21:15	1
d7-N-MeFOSE-M	15		10 - 178	09/06/22 09:44	09/13/22 21:15	1
d3-NMePFOSA	3	*5-	10 - 155	09/06/22 09:44	09/13/22 21:15	1
d9-N-EtFOSE-M	13		10 - 177	09/06/22 09:44	09/13/22 21:15	1
d5-NEtPFOSA	4	*5-	10 - 159	09/06/22 09:44	09/13/22 21:15	1
13C3 HFPO-DA	80		17 - 185	09/06/22 09:44	09/13/22 21:15	1

Client Sample ID: FFGAC-0822-MID

Lab Sample ID: 410-95902-12

Date Collected: 08/24/22 08:38

Matrix: Water

Date Received: 08/26/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**36**		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorooctanoic acid	**3.9**		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorononanoic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorobutanesulfonic acid	**2.0**		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
NEtFOSAA	<2.7		2.7		ng/L		09/06/22 09:44	09/13/22 21:26	1
NMeFOSAA	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
10:2 FTS	**8.3**		4.4		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		09/06/22 09:44	09/13/22 21:26	1
NMeFOSE	<2.7		2.7		ng/L		09/06/22 09:44	09/13/22 21:26	1
NMeFOSA	<2.7		2.7		ng/L		09/06/22 09:44	09/13/22 21:26	1
NEtFOSE	<2.7		2.7		ng/L		09/06/22 09:44	09/13/22 21:26	1
NEtFOSA	<4.4		4.4		ng/L		09/06/22 09:44	09/13/22 21:26	1
HFPODA	<2.7		2.7		ng/L		09/06/22 09:44	09/13/22 21:26	1
DONA	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
9Cl-PF3ONS	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
4:2 Fluorotelomer sulfonic acid	**6.6**		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		09/06/22 09:44	09/13/22 21:26	1
6:2 Fluorotelomer sulfonic acid	**33**		4.4		ng/L		09/06/22 09:44	09/13/22 21:26	1
8:2 Fluorotelomer sulfonic acid	**6.5**		2.7		ng/L		09/06/22 09:44	09/13/22 21:26	1

Client Sample ID: FFGAC-0822-MID

Lab Sample ID: 410-95902-12

Date Collected: 08/24/22 08:38

Matrix: Water

Date Received: 08/26/22 10:30

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*97*		*10 - 200*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
M2-8:2 FTS	*82*		*33 - 200*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
M2-6:2 FTS	*101*		*17 - 200*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C5 PFHxA	*59*		*24 - 179*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C4 PFHpA	*76*		*31 - 182*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C8 PFOA	*74*		*48 - 162*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C9 PFNA	*81*		*51 - 167*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C6 PFDA	*64*		*49 - 163*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C7 PFUnA	*68*		*34 - 174*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C2-PFDoDA	*55*		*17 - 176*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C2 PFTeDA	*23*		*10 - 179*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C3 PFBS	*93*		*16 - 200*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C3 PFHxS	*73*		*28 - 188*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C8 PFOS	*72*		*51 - 159*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
d3-NMeFOSAA	*60*		*31 - 174*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
d5-NEtFOSAA	*62*		*29 - 195*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C8 FOSA	*25*		*10 - 168*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C4 PFBA	*75*		*42 - 165*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C5 PFPeA	*75*		*38 - 187*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
d7-N-MeFOSE-M	*7*	**5-*	*10 - 178*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
d3-NMePFOSA	*1*	**5-*	*10 - 155*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
d9-N-EtFOSE-M	*6*	**5-*	*10 - 177*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
d5-NEtPFOSA	*0.9*	**5-*	*10 - 159*	*09/06/22 09:44*	*09/13/22 21:26*	*1*
13C3 HFPO-DA	*73*		*17 - 185*	*09/06/22 09:44*	*09/13/22 21:26*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**610**		18		ng/L		09/06/22 09:44	09/13/22 21:37	10
Perfluorobutanoic acid	**520**		44		ng/L		09/06/22 09:44	09/13/22 21:37	10
Perfluoropentanoic acid	**530**		18		ng/L		09/06/22 09:44	09/13/22 21:37	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFHxA	*71*		*24 - 179*	*09/06/22 09:44*	*09/13/22 21:37*	*10*
13C4 PFBA	*75*		*42 - 165*	*09/06/22 09:44*	*09/13/22 21:37*	*10*
13C5 PFPeA	*71*		*38 - 187*	*09/06/22 09:44*	*09/13/22 21:37*	*10*

Client Sample ID: FFGAC-0822-INF

Lab Sample ID: 410-95902-13

Date Collected: 08/24/22 08:40

Matrix: Water

Date Received: 08/26/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**3700**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluoroheptanoic acid	**240**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorooctanoic acid	**170**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorononanoic acid	**82**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorodecanoic acid	**47**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorotridecanoic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorotetradecanoic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorobutanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorohexanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorooctanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1

Client Sample ID: FFGAC-0822-INF
Date Collected: 08/24/22 08:40
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-13
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:27	1
NMeFOSAA	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
10:2 FTS	<50	cn	50		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluoropentanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluoroheptanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorononanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorodecanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorododecanesulfonic acid (PFDoS)	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorooctanesulfonamide	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorohexadecanoic acid	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorooctadecanoic acid	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorobutanoic acid	**860**	**cn**	50		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluoropentanoic acid	**1500**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
NMeFOSE	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:27	1
NMeFOSA	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:27	1
NEtFOSE	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:27	1
NEtFOSA	<50	cn	50		ng/L		09/06/22 09:44	09/20/22 12:27	1
HFPODA	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:27	1
DONA	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
9Cl-PF3ONS	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
11Cl-PF3OUdS	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluorododecanoic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
4:2 Fluorotelomer sulfonic acid	**41**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
Perfluoroundecanoic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:27	1
8:2 Fluorotelomer sulfonic acid	**1400**	**cn**	30		ng/L		09/06/22 09:44	09/20/22 12:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*360*	**5+ cn*	*10 - 200*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
M2-8:2 FTS	*110*	*cn*	*33 - 200*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
M2-6:2 FTS	*160*	*cn*	*17 - 200*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C5 PFHxA	*167*	*cn*	*24 - 179*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C4 PFHpA	*209*	**5+ cn*	*31 - 182*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C8 PFOA	*91*	*cn*	*48 - 162*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C9 PFNA	*105*	*cn*	*51 - 167*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C6 PFDA	*100*	*cn*	*49 - 163*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C7 PFUnA	*105*	*cn*	*34 - 174*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C2-PFDoDA	*113*	*cn*	*17 - 176*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C2 PFTeDA	*93*	*cn*	*10 - 179*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C3 PFBS	*109*	*cn*	*16 - 200*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C3 PFHxS	*182*	*cn*	*28 - 188*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C8 PFOS	*102*	*cn*	*51 - 159*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
d3-NMeFOSAA	*95*	*cn*	*31 - 174*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
d5-NEtFOSAA	*101*	*cn*	*29 - 195*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C8 FOSA	*94*	*cn*	*10 - 168*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C4 PFBA	*92*	*cn*	*42 - 165*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C5 PFPeA	*97*	*cn*	*38 - 187*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
d7-N-MeFOSE-M	*88*	*cn*	*10 - 178*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
d3-NMePFOSA	*33*	*cn*	*10 - 155*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
d9-N-EtFOSE-M	*86*	*cn*	*10 - 177*	*09/06/22 09:44*	*09/20/22 12:27*	*1*

Client Sample ID: FFGAC-0822-INF

Lab Sample ID: 410-95902-13

Date Collected: 08/24/22 08:40
Matrix: Water
Date Received: 08/26/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtPFOSA	*62*	*cn*	*10 - 159*	*09/06/22 09:44*	*09/20/22 12:27*	*1*
13C3 HFPO-DA	*192*	**5+ cn*	*17 - 185*	*09/06/22 09:44*	*09/20/22 12:27*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	**32000**		500		ng/L		09/06/22 09:44	09/13/22 22:00	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*128*		*17 - 200*	*09/06/22 09:44*	*09/13/22 22:00*	*10*

Client Sample ID: FFGAC-0822-INF DUP

Lab Sample ID: 410-95902-14

Date Collected: 08/24/22 08:40
Matrix: Water
Date Received: 08/26/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**4000**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluoroheptanoic acid	**260**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorooctanoic acid	**170**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorononanoic acid	**77**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorodecanoic acid	**49**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorotridecanoic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorotetradecanoic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorobutanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorohexanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorooctanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
NEtFOSAA	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:38	1
NMeFOSAA	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
10:2 FTS	<50	cn	50		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluoropentanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluoroheptanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorononanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorodecanesulfonic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorododecanesulfonic acid (PFDoS)	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorooctanesulfonamide	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorohexadecanoic acid	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorooctadecanoic acid	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorobutanoic acid	**860**	**cn**	50		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluoropentanoic acid	**1400**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
NMeFOSE	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:38	1
NMeFOSA	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:38	1
NEtFOSE	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:38	1
NEtFOSA	<50	cn	50		ng/L		09/06/22 09:44	09/20/22 12:38	1
HFPODA	<30	cn	30		ng/L		09/06/22 09:44	09/20/22 12:38	1
DONA	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
9Cl-PF3ONS	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
11Cl-PF3OUdS	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluorododecanoic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
4:2 Fluorotelomer sulfonic acid	**41**	**cn**	20		ng/L		09/06/22 09:44	09/20/22 12:38	1
Perfluoroundecanoic acid	<20	cn	20		ng/L		09/06/22 09:44	09/20/22 12:38	1

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

Job ID: 410-95902-1

Client Sample ID: FFGAC-0822-INF DUP

Date Collected: 08/24/22 08:40
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-14

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 Fluorotelomer sulfonic acid	1400	cn	30		ng/L		09/06/22 09:44	09/20/22 12:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*347*	**5+ cn*	*10 - 200*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
M2-8:2 FTS	*107*	*cn*	*33 - 200*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
M2-6:2 FTS	*169*	*cn*	*17 - 200*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C5 PFHxA	*171*	*cn*	*24 - 179*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C4 PFHpA	*197*	**5+ cn*	*31 - 182*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C8 PFOA	*95*	*cn*	*48 - 162*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C9 PFNA	*111*	*cn*	*51 - 167*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C6 PFDA	*94*	*cn*	*49 - 163*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C7 PFUnA	*107*	*cn*	*34 - 174*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C2-PFDoDA	*106*	*cn*	*17 - 176*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C2 PFTeDA	*89*	*cn*	*10 - 179*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C3 PFBS	*106*	*cn*	*16 - 200*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C3 PFHxS	*187*	*cn*	*28 - 188*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C8 PFOS	*101*	*cn*	*51 - 159*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
d3-NMeFOSAA	*99*	*cn*	*31 - 174*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
d5-NEtFOSAA	*100*	*cn*	*29 - 195*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C8 FOSA	*98*	*cn*	*10 - 168*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C4 PFBA	*96*	*cn*	*42 - 165*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C5 PFPeA	*99*	*cn*	*38 - 187*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
d7-N-MeFOSE-M	*95*	*cn*	*10 - 178*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
d3-NMePFOSA	*39*	*cn*	*10 - 155*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
d9-N-EtFOSE-M	*93*	*cn*	*10 - 177*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
d5-NEtPFOSA	*79*	*cn*	*10 - 159*	*09/06/22 09:44*	*09/20/22 12:38*	*1*
13C3 HFPO-DA	*210*	**5+ cn*	*17 - 185*	*09/06/22 09:44*	*09/20/22 12:38*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	30000		500		ng/L		09/06/22 09:44	09/13/22 22:22	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*139*		*17 - 200*	*09/06/22 09:44*	*09/13/22 22:22*	*10*

Surrogate Summary

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

Job ID: 410-95902-1

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)
410-95902-1	FB-08232022	31 S1- cn	64 S1- cn	10 S1- cn
410-95902-2	DX-SPGT-0822	93	101	98
410-95902-3	SK-SPGT-0822	93	100	99
410-95902-4	AW-SPGT-0822	96	103	97
410-95902-5	JQ-SPGT-0822	103	103	103
410-95902-6	JQ-SPGT-0822 DUP	96	101	101
410-95902-7	BI-SPGT-0822	99	105	104
410-95902-8	WG-SPGT-0822	108	110	106
410-95902-9	HL-PT-0822	85	98	99
LCS 410-291516/2-A	Lab Control Sample	101	100	103
LCSD 410-291516/3-A	Lab Control Sample Dup	98	104	101
MB 410-291516/1-A	Method Blank	103	99	104

Surrogate Legend

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

Isotope Dilution Summary

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

Job ID: 410-95902-1

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 (10-200)	M282FTS (33-200)	M262FTS (17-200)	13C5PHA (24-179)	C4PFHA (31-182)	C8PFOA (48-162)	C9PFNA (51-167)	C6PFDA (49-163)
410-95902-10	FB-08242022	110	97	104	96	98	93	105	98
410-95902-11	FFGAC-0822-EFF	134	98	111	83	82	87	99	82
410-95902-12	FFGAC-0822-MID	97	82	101	59	76	74	81	64
410-95902-12 - DL	FFGAC-0822-MID				71				
410-95902-13 - DL	FFGAC-0822-INF			128					
410-95902-13	FFGAC-0822-INF	360 *5+ cn	110 cn	160 cn	167 cn	209 *5+ cn	91 cn	105 cn	100 cn
410-95902-14 - DL	FFGAC-0822-INF DUP			139					
410-95902-14	FFGAC-0822-INF DUP	347 *5+ cn	107 cn	169 cn	171 cn	197 *5+ cn	95 cn	111 cn	94 cn
LCS 410-290734/2-A	Lab Control Sample	112	98	106	99	99	95	100	95
LCS 410-292937/2-A	Lab Control Sample	124	132	119	95	96	96	100	100
LCSD 410-290734/3-A	Lab Control Sample Dup	111	96	103	96	103	101	109	100
MB 410-290734/1-A	Method Blank	107	99	105	97	98	95	105	104
MB 410-292937/1-A	Method Blank	98	113	109	87	96	92	97	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-95902-10	FB-08242022	97	106	111	101	102	104	112	88
410-95902-11	FFGAC-0822-EFF	85	68	42	96	86	88	76	80
410-95902-12	FFGAC-0822-MID	68	55	23	93	73	72	60	62
410-95902-12 - DL	FFGAC-0822-MID								
410-95902-13 - DL	FFGAC-0822-INF								
410-95902-13	FFGAC-0822-INF	105 cn	113 cn	93 cn	109 cn	182 cn	102 cn	95 cn	101 cn
410-95902-14 - DL	FFGAC-0822-INF DUP								
410-95902-14	FFGAC-0822-INF DUP	107 cn	106 cn	89 cn	106 cn	187 cn	101 cn	99 cn	100 cn
LCS 410-290734/2-A	Lab Control Sample	92	90	94	108	104	103	96	89
LCS 410-292937/2-A	Lab Control Sample	97	91	93	105	110	100	97	106
LCSD 410-290734/3-A	Lab Control Sample Dup	99	96	106	109	103	108	106	89
MB 410-290734/1-A	Method Blank	105	103	111	110	103	105	108	101
MB 410-292937/1-A	Method Blank	99	86	85	96	100	99	97	105

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
410-95902-10	FB-08242022	89	102	100	89	59	98	87	98
410-95902-11	FFGAC-0822-EFF	33	87	97	15	3 *5-	13	4 *5-	80
410-95902-12	FFGAC-0822-MID	25	75	75	7 *5-	1 *5-	6 *5-	0.9 *5-	73
410-95902-12 - DL	FFGAC-0822-MID		75	71					
410-95902-13 - DL	FFGAC-0822-INF								
410-95902-13	FFGAC-0822-INF	94 cn	92 cn	97 cn	88 cn	33 cn	86 cn	62 cn	192 *5+ cn
410-95902-14 - DL	FFGAC-0822-INF DUP								
410-95902-14	FFGAC-0822-INF DUP	98 cn	96 cn	99 cn	95 cn	39 cn	93 cn	79 cn	210 *5+ cn
LCS 410-290734/2-A	Lab Control Sample	82	101	99	81	45	78	72	95
LCS 410-292937/2-A	Lab Control Sample	94	105	96	88	55	78	78	107
LCSD 410-290734/3-A	Lab Control Sample Dup	87	107	109	81	50	87	75	104
MB 410-290734/1-A	Method Blank	85	104	104	88	50	89	82	90
MB 410-292937/1-A	Method Blank	88	97	97	70	49	68	70	104

Isotope Dilution Summary

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

Job ID: 410-95902-1

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

Lab Sample ID: MB 410-290734/1-A
Matrix: Water
Analysis Batch: 291146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 290734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorononanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
NEtFOSAA	<3.0		3.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
NMeFOSAA	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
10:2 FTS	<5.0		5.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
NMeFOSE	<3.0		3.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
NMeFOSA	<3.0		3.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
NEtFOSE	<3.0		3.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
NEtFOSA	<5.0		5.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
HFPODA	<3.0		3.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
DONA	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
9Cl-PF3ONS	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		08/29/22 16:13	08/30/22 19:11	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		08/29/22 16:13	08/30/22 19:11	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*107*		*10 - 200*	*08/29/22 16:13*	*08/30/22 19:11*	*1*
M2-8:2 FTS	*99*		*33 - 200*	*08/29/22 16:13*	*08/30/22 19:11*	*1*
M2-6:2 FTS	*105*		*17 - 200*	*08/29/22 16:13*	*08/30/22 19:11*	*1*
13C5 PFHxA	*97*		*24 - 179*	*08/29/22 16:13*	*08/30/22 19:11*	*1*
13C4 PFHpA	*98*		*31 - 182*	*08/29/22 16:13*	*08/30/22 19:11*	*1*
13C8 PFOA	*95*		*48 - 162*	*08/29/22 16:13*	*08/30/22 19:11*	*1*
13C9 PFNA	*105*		*51 - 167*	*08/29/22 16:13*	*08/30/22 19:11*	*1*
13C6 PFDA	*104*		*49 - 163*	*08/29/22 16:13*	*08/30/22 19:11*	*1*
13C7 PFUnA	*105*		*34 - 174*	*08/29/22 16:13*	*08/30/22 19:11*	*1*
13C2-PFDoDA	*103*		*17 - 176*	*08/29/22 16:13*	*08/30/22 19:11*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-290734/1-A
Matrix: Water
Analysis Batch: 291146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 290734

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	111		10 - 179	08/29/22 16:13	08/30/22 19:11	1
13C3 PFBS	110		16 - 200	08/29/22 16:13	08/30/22 19:11	1
13C3 PFHxS	103		28 - 188	08/29/22 16:13	08/30/22 19:11	1
13C8 PFOS	105		51 - 159	08/29/22 16:13	08/30/22 19:11	1
d3-NMeFOSAA	108		31 - 174	08/29/22 16:13	08/30/22 19:11	1
d5-NEtFOSAA	101		29 - 195	08/29/22 16:13	08/30/22 19:11	1
13C8 FOSA	85		10 - 168	08/29/22 16:13	08/30/22 19:11	1
13C4 PFBA	104		42 - 165	08/29/22 16:13	08/30/22 19:11	1
13C5 PFPeA	104		38 - 187	08/29/22 16:13	08/30/22 19:11	1
d7-N-MeFOSE-M	88		10 - 178	08/29/22 16:13	08/30/22 19:11	1
d3-NMePFOSA	50		10 - 155	08/29/22 16:13	08/30/22 19:11	1
d9-N-EtFOSE-M	89		10 - 177	08/29/22 16:13	08/30/22 19:11	1
d5-NEtPFOSA	82		10 - 159	08/29/22 16:13	08/30/22 19:11	1
13C3 HFPO-DA	90		17 - 185	08/29/22 16:13	08/30/22 19:11	1

Lab Sample ID: LCS 410-290734/2-A
Matrix: Water
Analysis Batch: 291146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 290734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	22.7		ng/L		89	58 - 139
Perfluoroheptanoic acid	25.6	23.4		ng/L		91	59 - 145
Perfluorooctanoic acid	25.6	23.3		ng/L		91	51 - 145
Perfluorononanoic acid	25.6	22.8		ng/L		89	61 - 139
Perfluorodecanoic acid	25.6	24.4		ng/L		95	56 - 138
Perfluorotridecanoic acid	25.6	24.1		ng/L		94	58 - 146
Perfluorotetradecanoic acid	25.6	24.5		ng/L		96	62 - 139
Perfluorobutanesulfonic acid	22.7	21.0		ng/L		93	53 - 138
Perfluorohexanesulfonic acid	23.3	20.9		ng/L		89	58 - 134
Perfluorooctanesulfonic acid	23.7	22.1		ng/L		93	45 - 150
NEtFOSAA	25.6	27.1		ng/L		106	55 - 134
NMeFOSAA	25.6	23.2		ng/L		91	59 - 140
10:2 FTS	24.7	24.3		ng/L		98	50 - 146
Perfluoropentanesulfonic acid	24.0	22.1		ng/L		92	55 - 140
Perfluoroheptanesulfonic acid	24.4	22.5		ng/L		92	56 - 140
Perfluorononanesulfonic acid	24.6	19.3		ng/L		78	59 - 136
Perfluorodecanesulfonic acid	24.7	20.8		ng/L		84	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.4		ng/L		86	48 - 138
Perfluorooctanesulfonamide	25.6	25.3		ng/L		99	43 - 167
Perfluorohexadecanoic acid	25.6	24.2		ng/L		95	41 - 158
Perfluorooctadecanoic acid	25.6	24.1		ng/L		94	29 - 172
Perfluorobutanoic acid	25.6	22.9		ng/L		90	59 - 136
Perfluoropentanoic acid	25.6	24.7		ng/L		97	57 - 141
NMeFOSE	25.6	24.9		ng/L		97	55 - 144
NMeFOSA	25.6	40.4	*+	ng/L		158	64 - 143
NEtFOSE	25.6	25.9		ng/L		101	60 - 136
NEtFOSA	25.6	25.5		ng/L		99	61 - 134
HFPODA	25.6	23.7		ng/L		93	50 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-290734/2-A
Matrix: Water
Analysis Batch: 291146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 290734

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DONA			24.2	22.1		ng/L		91	55 - 143		
9Cl-PF3ONS			23.8	19.6		ng/L		82	59 - 135		
11Cl-PF3OUdS			23.8	18.9		ng/L		79	53 - 139		
Perfluorododecanoic acid			25.6	24.0		ng/L		94	59 - 143		
4:2 Fluorotelomer sulfonic acid			23.9	23.0		ng/L		96	55 - 139		
Perfluoroundecanoic acid			25.6	24.0		ng/L		94	60 - 141		
6:2 Fluorotelomer sulfonic acid			24.3	22.3		ng/L		92	28 - 173		
8:2 Fluorotelomer sulfonic acid			24.5	28.4		ng/L		116	55 - 138		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*112*		*10 - 200*
M2-8:2 FTS	*98*		*33 - 200*
M2-6:2 FTS	*106*		*17 - 200*
13C5 PFHxA	*99*		*24 - 179*
13C4 PFHpA	*99*		*31 - 182*
13C8 PFOA	*95*		*48 - 162*
13C9 PFNA	*100*		*51 - 167*
13C6 PFDA	*95*		*49 - 163*
13C7 PFUnA	*92*		*34 - 174*
13C2-PFDoDA	*90*		*17 - 176*
13C2 PFTeDA	*94*		*10 - 179*
13C3 PFBS	*108*		*16 - 200*
13C3 PFHxS	*104*		*28 - 188*
13C8 PFOS	*103*		*51 - 159*
d3-NMeFOSAA	*96*		*31 - 174*
d5-NEtFOSAA	*89*		*29 - 195*
13C8 FOSA	*82*		*10 - 168*
13C4 PFBA	*101*		*42 - 165*
13C5 PFPeA	*99*		*38 - 187*
d7-N-MeFOSE-M	*81*		*10 - 178*
d3-NMePFOSA	*45*		*10 - 155*
d9-N-EtFOSE-M	*78*		*10 - 177*
d5-NEtPFOSA	*72*		*10 - 159*
13C3 HFPO-DA	*95*		*17 - 185*

Lab Sample ID: LCSD 410-290734/3-A
Matrix: Water
Analysis Batch: 291146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 290734

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	25.0		ng/L		98	58 - 139	10	30
Perfluoroheptanoic acid			25.6	23.4		ng/L		91	59 - 145	0	30
Perfluorooctanoic acid			25.6	23.8		ng/L		93	51 - 145	2	30
Perfluorononanoic acid			25.6	24.2		ng/L		94	61 - 139	6	30
Perfluorodecanoic acid			25.6	24.8		ng/L		97	56 - 138	1	30
Perfluorotridecanoic acid			25.6	22.7		ng/L		89	58 - 146	6	30
Perfluorotetradecanoic acid			25.6	22.1		ng/L		86	62 - 139	10	30
Perfluorobutanesulfonic acid			22.7	20.7		ng/L		91	53 - 138	2	30
Perfluorohexanesulfonic acid			23.3	21.2		ng/L		91	58 - 134	2	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-290734/3-A
Matrix: Water
Analysis Batch: 291146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 290734

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid			23.7	22.4		ng/L		95	45 - 150	2	30
NEtFOSAA			25.6	28.1		ng/L		110	55 - 134	4	30
NMeFOSAA			25.6	21.3		ng/L		83	59 - 140	9	30
10:2 FTS			24.7	27.5		ng/L		111	50 - 146	12	30
Perfluoropentanesulfonic acid			24.0	23.1		ng/L		96	55 - 140	4	30
Perfluoroheptanesulfonic acid			24.4	22.3		ng/L		91	56 - 140	1	30
Perfluorononanesulfonic acid			24.6	20.2		ng/L		82	59 - 136	5	30
Perfluorodecanesulfonic acid			24.7	21.2		ng/L		86	55 - 137	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	21.5		ng/L		87	48 - 138	0	30
Perfluorooctanesulfonamide			25.6	26.1		ng/L		102	43 - 167	3	30
Perfluorohexadecanoic acid			25.6	23.2		ng/L		91	41 - 158	4	30
Perfluorooctadecanoic acid			25.6	24.0		ng/L		94	29 - 172	0	30
Perfluorobutanoic acid			25.6	24.8		ng/L		97	59 - 136	8	30
Perfluoropentanoic acid			25.6	24.7		ng/L		96	57 - 141	0	30
NMeFOSE			25.6	26.8		ng/L		105	55 - 144	7	30
NMeFOSA			25.6	41.1	*+	ng/L		160	64 - 143	2	30
NEtFOSE			25.6	25.7		ng/L		100	60 - 136	1	30
NEtFOSA			25.6	25.1		ng/L		98	61 - 134	1	30
HFPODA			25.6	22.0		ng/L		86	50 - 135	7	30
DONA			24.2	22.0		ng/L		91	55 - 143	1	30
9Cl-PF3ONS			23.8	21.6		ng/L		91	59 - 135	10	30
11Cl-PF3OUdS			23.8	20.6		ng/L		86	53 - 139	8	30
Perfluorododecanoic acid			25.6	22.8		ng/L		89	59 - 143	5	30
4:2 Fluorotelomer sulfonic acid			23.9	22.8		ng/L		95	55 - 139	1	30
Perfluoroundecanoic acid			25.6	25.6		ng/L		100	60 - 141	6	30
6:2 Fluorotelomer sulfonic acid			24.3	23.9		ng/L		99	28 - 173	7	30
8:2 Fluorotelomer sulfonic acid			24.5	29.7		ng/L		121	55 - 138	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*111*		*10 - 200*
M2-8:2 FTS	*96*		*33 - 200*
M2-6:2 FTS	*103*		*17 - 200*
13C5 PFHxA	*96*		*24 - 179*
13C4 PFHpA	*103*		*31 - 182*
13C8 PFOA	*101*		*48 - 162*
13C9 PFNA	*109*		*51 - 167*
13C6 PFDA	*100*		*49 - 163*
13C7 PFUnA	*99*		*34 - 174*
13C2-PFDoDA	*96*		*17 - 176*
13C2 PFTeDA	*106*		*10 - 179*
13C3 PFBS	*109*		*16 - 200*
13C3 PFHxS	*103*		*28 - 188*
13C8 PFOS	*108*		*51 - 159*
d3-NMeFOSAA	*106*		*31 - 174*
d5-NEtFOSAA	*89*		*29 - 195*
13C8 FOSA	*87*		*10 - 168*
13C4 PFBA	*107*		*42 - 165*
13C5 PFPeA	*109*		*38 - 187*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-290734/3-A
Matrix: Water
Analysis Batch: 291146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 290734

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d7-N-MeFOSE-M	81		10 - 178
d3-NMePFOSA	50		10 - 155
d9-N-EtFOSE-M	87		10 - 177
d5-NEtPFOSA	75		10 - 159
13C3 HFPO-DA	104		17 - 185

Lab Sample ID: MB 410-292937/1-A
Matrix: Water
Analysis Batch: 294182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292937

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorononanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
NEtFOSAA	<3.0		3.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
NMeFOSAA	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
10:2 FTS	<5.0		5.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
NMeFOSE	<3.0		3.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
NMeFOSA	<3.0		3.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
NEtFOSE	<3.0		3.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
NEtFOSA	<5.0		5.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
HFPODA	<3.0		3.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
DONA	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
9Cl-PF3ONS	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		09/06/22 09:44	09/09/22 15:34	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		09/06/22 09:44	09/09/22 15:34	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	98		10 - 200	09/06/22 09:44	09/09/22 15:34	1
M2-8:2 FTS	113		33 - 200	09/06/22 09:44	09/09/22 15:34	1
M2-6:2 FTS	109		17 - 200	09/06/22 09:44	09/09/22 15:34	1
13C5 PFHxA	87		24 - 179	09/06/22 09:44	09/09/22 15:34	1
13C4 PFHpA	96		31 - 182	09/06/22 09:44	09/09/22 15:34	1
13C8 PFOA	92		48 - 162	09/06/22 09:44	09/09/22 15:34	1
13C9 PFNA	97		51 - 167	09/06/22 09:44	09/09/22 15:34	1
13C6 PFDA	98		49 - 163	09/06/22 09:44	09/09/22 15:34	1
13C7 PFUnA	99		34 - 174	09/06/22 09:44	09/09/22 15:34	1
13C2-PFDoDA	86		17 - 176	09/06/22 09:44	09/09/22 15:34	1
13C2 PFTeDA	85		10 - 179	09/06/22 09:44	09/09/22 15:34	1
13C3 PFBS	96		16 - 200	09/06/22 09:44	09/09/22 15:34	1
13C3 PFHxS	100		28 - 188	09/06/22 09:44	09/09/22 15:34	1
13C8 PFOS	99		51 - 159	09/06/22 09:44	09/09/22 15:34	1
d3-NMeFOSAA	97		31 - 174	09/06/22 09:44	09/09/22 15:34	1
d5-NEtFOSAA	105		29 - 195	09/06/22 09:44	09/09/22 15:34	1
13C8 FOSA	88		10 - 168	09/06/22 09:44	09/09/22 15:34	1
13C4 PFBA	97		42 - 165	09/06/22 09:44	09/09/22 15:34	1
13C5 PFPeA	97		38 - 187	09/06/22 09:44	09/09/22 15:34	1
d7-N-MeFOSE-M	70		10 - 178	09/06/22 09:44	09/09/22 15:34	1
d3-NMePFOSA	49		10 - 155	09/06/22 09:44	09/09/22 15:34	1
d9-N-EtFOSE-M	68		10 - 177	09/06/22 09:44	09/09/22 15:34	1
d5-NEtPFOSA	70		10 - 159	09/06/22 09:44	09/09/22 15:34	1
13C3 HFPO-DA	104		17 - 185	09/06/22 09:44	09/09/22 15:34	1

Lab Sample ID: LCS 410-292937/2-A
Matrix: Water
Analysis Batch: 294182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	25.6		ng/L		100	58 - 139
Perfluoroheptanoic acid	25.6	26.6		ng/L		104	59 - 145
Perfluorooctanoic acid	25.6	24.9		ng/L		97	51 - 145
Perfluorononanoic acid	25.6	27.0		ng/L		106	61 - 139
Perfluorodecanoic acid	25.6	26.6		ng/L		104	56 - 138
Perfluorotridecanoic acid	25.6	25.4		ng/L		99	58 - 146
Perfluorotetradecanoic acid	25.6	24.5		ng/L		96	62 - 139
Perfluorobutanesulfonic acid	22.7	22.5		ng/L		99	53 - 138
Perfluorohexanesulfonic acid	23.3	21.6		ng/L		93	58 - 134
Perfluorooctanesulfonic acid	23.7	23.4		ng/L		99	45 - 150
NEtFOSAA	25.6	25.5		ng/L		100	55 - 134
NMeFOSAA	25.6	25.7		ng/L		101	59 - 140
10:2 FTS	24.7	18.1		ng/L		73	50 - 146
Perfluoropentanesulfonic acid	24.0	24.3		ng/L		101	55 - 140
Perfluoroheptanesulfonic acid	24.4	22.5		ng/L		92	56 - 140
Perfluorononanesulfonic acid	24.6	21.2		ng/L		86	59 - 136
Perfluorodecanesulfonic acid	24.7	24.2		ng/L		98	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	27.2		ng/L		110	48 - 138
Perfluorooctanesulfonamide	25.6	26.3		ng/L		103	43 - 167
Perfluorohexadecanoic acid	25.6	26.6		ng/L		104	41 - 158
Perfluorooctadecanoic acid	25.6	27.6		ng/L		108	29 - 172

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-292937/2-A
Matrix: Water
Analysis Batch: 294182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	25.6	24.3		ng/L		95	59 - 136
Perfluoropentanoic acid	25.6	25.4		ng/L		99	57 - 141
NMeFOSE	25.6	24.8		ng/L		97	55 - 144
NMeFOSA	25.6	35.5		ng/L		139	64 - 143
NEtFOSE	25.6	27.3		ng/L		106	60 - 136
NEtFOSA	25.6	23.6		ng/L		92	61 - 134
HFPODA	25.6	24.4		ng/L		95	50 - 135
DONA	24.2	23.8		ng/L		98	55 - 143
9Cl-PF3ONS	23.8	21.1		ng/L		88	59 - 135
11Cl-PF3OUdS	23.8	21.0		ng/L		88	53 - 139
Perfluorododecanoic acid	25.6	23.4		ng/L		91	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	20.2		ng/L		85	55 - 139
Perfluoroundecanoic acid	25.6	25.3		ng/L		99	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	22.2		ng/L		91	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	22.2		ng/L		90	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*124*		*10 - 200*
M2-8:2 FTS	*132*		*33 - 200*
M2-6:2 FTS	*119*		*17 - 200*
13C5 PFHxA	*95*		*24 - 179*
13C4 PFHpA	*96*		*31 - 182*
13C8 PFOA	*96*		*48 - 162*
13C9 PFNA	*100*		*51 - 167*
13C6 PFDA	*100*		*49 - 163*
13C7 PFUnA	*97*		*34 - 174*
13C2-PFDoDA	*91*		*17 - 176*
13C2 PFTeDA	*93*		*10 - 179*
13C3 PFBS	*105*		*16 - 200*
13C3 PFHxS	*110*		*28 - 188*
13C8 PFOS	*100*		*51 - 159*
d3-NMeFOSAA	*97*		*31 - 174*
d5-NEtFOSAA	*106*		*29 - 195*
13C8 FOSA	*94*		*10 - 168*
13C4 PFBA	*105*		*42 - 165*
13C5 PFPeA	*96*		*38 - 187*
d7-N-MeFOSE-M	*88*		*10 - 178*
d3-NMePFOSA	*55*		*10 - 155*
d9-N-EtFOSE-M	*78*		*10 - 177*
d5-NEtPFOSA	*78*		*10 - 159*
13C3 HFPO-DA	*107*		*17 - 185*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-291516/1-A
Matrix: Drinking Water
Analysis Batch: 292512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 291516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluorononanoic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
NEtFOSAA	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
NMeFOSAA	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		08/31/22 11:10	09/02/22 18:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*103*		*70 - 130*	*08/31/22 11:10*	*09/02/22 18:03*	*1*
13C2 PFDA	*99*		*70 - 130*	*08/31/22 11:10*	*09/02/22 18:03*	*1*
13C2 PFHxA	*104*		*70 - 130*	*08/31/22 11:10*	*09/02/22 18:03*	*1*

Lab Sample ID: LCS 410-291516/2-A
Matrix: Drinking Water
Analysis Batch: 292512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 291516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	80.0	81.4	E	ng/L		102	70 - 130
Perfluoroheptanoic acid	80.0	82.3	E	ng/L		103	70 - 130
Perfluorooctanoic acid	80.0	79.8		ng/L		100	70 - 130
Perfluorononanoic acid	80.0	80.9	E	ng/L		101	70 - 130
Perfluorodecanoic acid	80.0	79.8		ng/L		100	70 - 130
Perfluorotridecanoic acid	80.0	68.3		ng/L		85	70 - 130
Perfluorotetradecanoic acid	80.0	82.2	E	ng/L		103	70 - 130
Perfluorobutanesulfonic acid	70.8	71.5	E	ng/L		101	70 - 130
Perfluorohexanesulfonic acid	73.0	78.1	E	ng/L		107	70 - 130
Perfluorooctanesulfonic acid	74.0	79.2	E	ng/L		107	70 - 130
NEtFOSAA	80.0	75.5		ng/L		94	70 - 130
NMeFOSAA	80.0	70.7		ng/L		88	70 - 130
Perfluoroundecanoic acid	80.0	77.1		ng/L		96	70 - 130
Perfluorododecanoic acid	80.0	78.9		ng/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*101*		*70 - 130*
13C2 PFDA	*100*		*70 - 130*
13C2 PFHxA	*103*		*70 - 130*

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

Lab Sample ID: LCSD 410-291516/3-A
Matrix: Drinking Water
Analysis Batch: 292512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 291516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	80.3	E	ng/L		100	70 - 130	1	30
Perfluoroheptanoic acid			80.0	80.0	E	ng/L		100	70 - 130	3	30
Perfluorooctanoic acid			80.0	80.2	E	ng/L		100	70 - 130	1	30
Perfluorononanoic acid			80.0	82.9	E	ng/L		104	70 - 130	2	30
Perfluorodecanoic acid			80.0	80.6	E	ng/L		101	70 - 130	1	30
Perfluorotridecanoic acid			80.0	72.5		ng/L		91	70 - 130	6	30
Perfluorotetradecanoic acid			80.0	74.2		ng/L		93	70 - 130	10	30
Perfluorobutanesulfonic acid			70.8	67.7		ng/L		96	70 - 130	5	30
Perfluorohexanesulfonic acid			73.0	77.0	E	ng/L		106	70 - 130	1	30
Perfluorooctanesulfonic acid			74.0	79.0	E	ng/L		107	70 - 130	0	30
NEtFOSAA			80.0	76.0		ng/L		95	70 - 130	1	30
NMeFOSAA			80.0	68.1		ng/L		85	70 - 130	4	30
Perfluoroundecanoic acid			80.0	78.7		ng/L		98	70 - 130	2	30
Perfluorododecanoic acid			80.0	77.4		ng/L		97	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*98*		*70 - 130*
13C2 PFDA	*104*		*70 - 130*
13C2 PFHxA	*101*		*70 - 130*

LCMS

Prep Batch: 290734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-10	FB-08242022	Total/NA	Water	EPA 537 (mod)	
MB 410-290734/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-290734/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-290734/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 291146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-10	FB-08242022	Total/NA	Water	EPA 537 (Mod)	290734
MB 410-290734/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	290734
LCS 410-290734/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	290734
LCSD 410-290734/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	290734

Prep Batch: 291516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-1	FB-08232022	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-95902-2	DX-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-95902-3	SK-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-95902-4	AW-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-95902-5	JQ-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-95902-6	JQ-SPGT-0822 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-95902-7	BI-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-95902-8	WG-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-95902-9	HL-PT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-291516/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-291516/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-291516/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 292512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-1	FB-08232022	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
410-95902-2	DX-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
410-95902-3	SK-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
410-95902-4	AW-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
410-95902-5	JQ-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
410-95902-6	JQ-SPGT-0822 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
410-95902-7	BI-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
410-95902-8	WG-SPGT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
410-95902-9	HL-PT-0822	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
MB 410-291516/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
LCS 410-291516/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516
LCSD 410-291516/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	291516

Prep Batch: 292937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-11	FFGAC-0822-EFF	Total/NA	Water	EPA 537 (mod)	
410-95902-12 - DL	FFGAC-0822-MID	Total/NA	Water	EPA 537 (mod)	
410-95902-12	FFGAC-0822-MID	Total/NA	Water	EPA 537 (mod)	
410-95902-13	FFGAC-0822-INF	Total/NA	Water	EPA 537 (mod)	
410-95902-13 - DL	FFGAC-0822-INF	Total/NA	Water	EPA 537 (mod)	
410-95902-14	FFGAC-0822-INF DUP	Total/NA	Water	EPA 537 (mod)	
410-95902-14 - DL	FFGAC-0822-INF DUP	Total/NA	Water	EPA 537 (mod)	

LCMS (Continued)

Prep Batch: 292937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-292937/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-292937/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 294182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-292937/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	292937
LCS 410-292937/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	292937

Prep Batch: 294333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-1	FB-08232022	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-294333/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-294333/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-294333/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 295517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-11	FFGAC-0822-EFF	Total/NA	Water	EPA 537 (Mod)	292937
410-95902-12	FFGAC-0822-MID	Total/NA	Water	EPA 537 (Mod)	292937
410-95902-12 - DL	FFGAC-0822-MID	Total/NA	Water	EPA 537 (Mod)	292937
410-95902-13 - DL	FFGAC-0822-INF	Total/NA	Water	EPA 537 (Mod)	292937
410-95902-14 - DL	FFGAC-0822-INF DUP	Total/NA	Water	EPA 537 (Mod)	292937

Analysis Batch: 295549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-1	FB-08232022	Total/NA	Drinking Water	EPA 537 Ver 1.1	294333
MB 410-294333/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	294333
LCS 410-294333/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	294333
LCSD 410-294333/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	294333

Prep Batch: 297645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-11 - RE	FFGAC-0822-EFF	Total/NA	Water	EPA 537 (mod)	
410-95902-12 - RE	FFGAC-0822-MID	Total/NA	Water	EPA 537 (mod)	
MB 410-297645/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-297645/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 297753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-13	FFGAC-0822-INF	Total/NA	Water	EPA 537 (Mod)	292937
410-95902-14	FFGAC-0822-INF DUP	Total/NA	Water	EPA 537 (Mod)	292937

Analysis Batch: 299277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-95902-11 - RE	FFGAC-0822-EFF	Total/NA	Water	EPA 537 (Mod)	297645
410-95902-12 - RE	FFGAC-0822-MID	Total/NA	Water	EPA 537 (Mod)	297645
MB 410-297645/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	297645
LCS 410-297645/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	297645

Lab Chronicle

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

Job ID: 410-95902-1

Client Sample ID: FB-08232022
Date Collected: 08/23/22 09:30
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			291516	HQ8B	ELLE	08/31/22 11:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	292512	DCS9	ELLE	09/02/22 20:22
Total/NA	Prep	EPA 537 Ver 1.1			294333	HQ8B	ELLE	09/09/22 12:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	295549	V3JD	ELLE	09/13/22 19:38

Client Sample ID: DX-SPGT-0822
Date Collected: 08/23/22 09:40
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-2
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			291516	HQ8B	ELLE	08/31/22 11:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	292512	DCS9	ELLE	09/02/22 20:33

Client Sample ID: SK-SPGT-0822
Date Collected: 08/23/22 10:30
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-3
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			291516	HQ8B	ELLE	08/31/22 11:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	292512	DCS9	ELLE	09/02/22 20:56

Client Sample ID: AW-SPGT-0822
Date Collected: 08/23/22 11:00
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-4
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			291516	HQ8B	ELLE	08/31/22 11:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	292512	DCS9	ELLE	09/02/22 21:08

Client Sample ID: JQ-SPGT-0822
Date Collected: 08/23/22 11:25
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-5
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			291516	HQ8B	ELLE	08/31/22 11:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	292512	DCS9	ELLE	09/02/22 21:19

Client Sample ID: JQ-SPGT-0822 DUP
Date Collected: 08/23/22 11:25
Date Received: 08/26/22 10:30

Lab Sample ID: 410-95902-6
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			291516	HQ8B	ELLE	08/31/22 11:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	292512	DCS9	ELLE	09/02/22 21:31

Client Sample ID: BI-SPGT-0822

Lab Sample ID: 410-95902-7

Date Collected: 08/23/22 11:50

Matrix: Drinking Water

Date Received: 08/26/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			291516	HQ8B	ELLE	08/31/22 11:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	292512	DCS9	ELLE	09/02/22 21:42

Client Sample ID: WG-SPGT-0822

Lab Sample ID: 410-95902-8

Date Collected: 08/23/22 12:15

Matrix: Drinking Water

Date Received: 08/26/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			291516	HQ8B	ELLE	08/31/22 11:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	292512	DCS9	ELLE	09/02/22 21:54

Client Sample ID: HL-PT-0822

Lab Sample ID: 410-95902-9

Date Collected: 08/23/22 12:40

Matrix: Drinking Water

Date Received: 08/26/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			291516	HQ8B	ELLE	08/31/22 11:10
Total/NA	Analysis	EPA 537 Ver 1.1		1	292512	DCS9	ELLE	09/02/22 22:06

Client Sample ID: FB-08242022

Lab Sample ID: 410-95902-10

Date Collected: 08/24/22 08:25

Matrix: Water

Date Received: 08/26/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			290734	QLP7	ELLE	08/29/22 16:13
Total/NA	Analysis	EPA 537 (Mod)		1	291146	QD9Y	ELLE	08/30/22 23:04

Client Sample ID: FFGAC-0822-EFF

Lab Sample ID: 410-95902-11

Date Collected: 08/24/22 08:35

Matrix: Water

Date Received: 08/26/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			292937	D5VP	ELLE	09/06/22 09:44
Total/NA	Analysis	EPA 537 (Mod)		1	295517	DQV6	ELLE	09/13/22 21:15
Total/NA	Prep	EPA 537 (mod)	RE		297645	M4QQ	ELLE	09/20/22 08:07
Total/NA	Analysis	EPA 537 (Mod)	RE	1	299277	DQV6	ELLE	09/23/22 14:58

Client Sample ID: FFGAC-0822-MID

Lab Sample ID: 410-95902-12

Date Collected: 08/24/22 08:38

Matrix: Water

Date Received: 08/26/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			292937	D5VP	ELLE	09/06/22 09:44
Total/NA	Analysis	EPA 537 (Mod)		1	295517	DQV6	ELLE	09/13/22 21:26
Total/NA	Prep	EPA 537 (mod)	DL		292937	D5VP	ELLE	09/06/22 09:44
Total/NA	Analysis	EPA 537 (Mod)	DL	10	295517	DQV6	ELLE	09/13/22 21:37

Lab Chronicle

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

Job ID: 410-95902-1

Client Sample ID: FFGAC-0822-MID

Lab Sample ID: 410-95902-12

Date Collected: 08/24/22 08:38

Matrix: Water

Date Received: 08/26/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)	RE		297645	M4QQ	ELLE	09/20/22 08:07
Total/NA	Analysis	EPA 537 (Mod)	RE	1	299277	DQV6	ELLE	09/23/22 15:09

Client Sample ID: FFGAC-0822-INF

Lab Sample ID: 410-95902-13

Date Collected: 08/24/22 08:40

Matrix: Water

Date Received: 08/26/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)	DL		292937	D5VP	ELLE	09/06/22 09:44
Total/NA	Analysis	EPA 537 (Mod)	DL	10	295517	DQV6	ELLE	09/13/22 22:00
Total/NA	Prep	EPA 537 (mod)			292937	D5VP	ELLE	09/06/22 09:44
Total/NA	Analysis	EPA 537 (Mod)		1	297753	ZG8V	ELLE	09/20/22 12:27

Client Sample ID: FFGAC-0822-INF DUP

Lab Sample ID: 410-95902-14

Date Collected: 08/24/22 08:40

Matrix: Water

Date Received: 08/26/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)	DL		292937	D5VP	ELLE	09/06/22 09:44
Total/NA	Analysis	EPA 537 (Mod)	DL	10	295517	DQV6	ELLE	09/13/22 22:22
Total/NA	Prep	EPA 537 (mod)			292937	D5VP	ELLE	09/06/22 09:44
Total/NA	Analysis	EPA 537 (Mod)		1	297753	ZG8V	ELLE	09/20/22 12:38

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-95902-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	10-06-22

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 (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
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
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

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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 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: 410-95902-1

Method	Method Description	Protocol	Laboratory
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	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 Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

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

Job ID: 410-95902-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-95902-1	FB-08232022	Drinking Water	08/23/22 09:30	08/26/22 10:30
410-95902-2	DX-SPGT-0822	Drinking Water	08/23/22 09:40	08/26/22 10:30
410-95902-3	SK-SPGT-0822	Drinking Water	08/23/22 10:30	08/26/22 10:30
410-95902-4	AW-SPGT-0822	Drinking Water	08/23/22 11:00	08/26/22 10:30
410-95902-5	JQ-SPGT-0822	Drinking Water	08/23/22 11:25	08/26/22 10:30
410-95902-6	JQ-SPGT-0822 DUP	Drinking Water	08/23/22 11:25	08/26/22 10:30
410-95902-7	BI-SPGT-0822	Drinking Water	08/23/22 11:50	08/26/22 10:30
410-95902-8	WG-SPGT-0822	Drinking Water	08/23/22 12:15	08/26/22 10:30
410-95902-9	HL-PT-0822	Drinking Water	08/23/22 12:40	08/26/22 10:30
410-95902-10	FB-08242022	Water	08/24/22 08:25	08/26/22 10:30
410-95902-11	FFGAC-0822-EFF	Water	08/24/22 08:35	08/26/22 10:30
410-95902-12	FFGAC-0822-MID	Water	08/24/22 08:38	08/26/22 10:30
410-95902-13	FFGAC-0822-INF	Water	08/24/22 08:40	08/26/22 10:30
410-95902-14	FFGAC-0822-INF DUP	Water	08/24/22 08:40	08/26/22 10:30

_LC

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:
Client Contact: Mr. Michael Kanarek	Phone: 860-712-2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: 1 of 2
Company: Weston Solutions, Inc	PWSID:			Job #:

Address: 43 North Main Street	Due Date Requested:	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); Other:
State, Zip: NH 03301	Compliance Project: Δ Yes Δ No		
Phone:	PO #:		
Email: Michael.Kanarek@westonsolutions.com	WO #:		
Project Name: Nantucket (waters)	Project #:		
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)	PFAS in DW (PFAS 14)	PFC_IDA (PFAS 36)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
FB-08232022	8/23/22	09:30	G	W			x		2	M. Kenney
DX-SPGT-0822	8/23/22	09:40	G	DW			x		2	
SK-SPGT-0822	8/23/22	10:30	G	DW			x		2	
AW-SPGT-0822	8/23/22	11:00	G	DW			x		2	
JQ-SPGT-0822	8/23/22	11:25	G	DW			x		2	
JQ-SPGT-0822 DUP	8/23/22	11:25	G	DW			x		2	
BI-SPGT-0822	8/23/22	11:50	G	DW			x		2	
WG-SPGT-0822	8/23/22	12:15	G	DW			x		2	
HL-PT-0822	8/23/22	12:40	G	DW			x		2	
FB-08242022	8/24/22	8:25	G	W				x	2	K. Santarpio
FFGAC-0822-EFF	8/24/22	8:35	G	W				x	2	

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: 8/25/22 1345	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: 8/26/22 1030	Company

Custody Seals Intact: X Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.6

Ver: 01/16/2019

NK

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

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:
Client Contact: Mr. Michael Kanarek	Phone: 860-712-2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: 2 of 2
Company: Weston Solutions, Inc.	PWSID:	Analysis Requested		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 #:			
Email: Michael.Kanarek@westonsolutions.com	WO #:			
Project Name: Nantucket (waters)	Project #:			
Site: Nantucket	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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFAS in DW (PFAS 14)	PFC_IDA (PFAS 36)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
FFGAC-0822-MID	8/24/22	08:38	G	W				x	2	
FFGAC-0822-INF	8/24/22	08:40	G	W				x	2	
FFGAC-0822-INF DUP	8/24/22	08:40	G	W				x	2	

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: 8/25/22 1345	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: 8/26/22 1030	Company

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

Cooler Temperature(s) °C and Other Remarks: 1.6

Ver: 01/16/2019

9/27/2022

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-95902-1

Login Number: 95902 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: Kanagy, Nicholas

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-95902-1
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).	☐ Yes ☐ No
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ 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:** 09/27/2022

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-98188-1

WESTON SAMPLE IDs: IP-SPGT-0922, IP-SPGT-0922 DUP, FB-09142022

Data Reviewed	Fraction				Comments
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				
Preservation/Log Sheet	√				
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	√				
ICAL/ICV/CCV	√				
Lab Duplicates	NA				
Field Duplicates	√				IP-SPGT-0922 and IP-SPGT-0922 DUP
Isotope Dilution Recoveries	√				

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: none

Data Reviewer Initials: RBE

Date: 2/7/2023

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ANALYTICAL REPORT

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

Laboratory Job ID: 410-98188-1
Client Project/Site: Nantucket

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

Attn: Michael Kanarek

Elizabeth M. Zanar

Authorized for release by:
10/5/2022 4:32:35 AM

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

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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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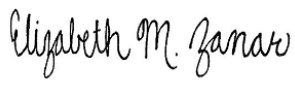

Elizabeth Zanar
Project Manager
10/5/2022 4:32:35 AM

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

Job ID: 410-98188-1

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

Job ID: 410-98188-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-98188-1

Receipt

The samples were received on 9/16/2022 11:06 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 0.5°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: 410-98188-1

Client Sample ID: IP-SPGT-0922 — Lab Sample ID: 410-98188-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.3		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	4.8		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	7.9		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.0		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.6		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: IP-SPGT-0922 DUP — Lab Sample ID: 410-98188-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	4.7		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	7.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	1.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	5.6		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-09142022 — Lab Sample ID: 410-98188-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample ID: IP-SPGT-0922

Lab Sample ID: 410-98188-1

Date Collected: 09/14/22 12:00

Matrix: Drinking Water

Date Received: 09/16/22 11:06

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**3.3**		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluoroheptanoic acid	**4.8**		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluorooctanoic acid	**7.9**		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluorononanoic acid	<1.8		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluorobutanesulfonic acid	**2.0**		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluorooctanesulfonic acid	**5.6**		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
NEtFOSAA	<1.8		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
NMeFOSAA	<1.8		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		09/28/22 17:00	10/04/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*09/28/22 17:00*	*10/04/22 17:57*	*1*
13C2 PFDA	*103*		*70 - 130*	*09/28/22 17:00*	*10/04/22 17:57*	*1*
13C2 PFHxA	*107*		*70 - 130*	*09/28/22 17:00*	*10/04/22 17:57*	*1*

Client Sample ID: IP-SPGT-0922 DUP

Lab Sample ID: 410-98188-2

Date Collected: 09/14/22 12:00

Matrix: Drinking Water

Date Received: 09/16/22 11:06

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**3.2**		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluoroheptanoic acid	**4.7**		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluorooctanoic acid	**7.9**		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluorononanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluorobutanesulfonic acid	**1.9**		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluorooctanesulfonic acid	**5.6**		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
NEtFOSAA	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
NMeFOSAA	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*84*		*70 - 130*	*09/28/22 17:00*	*10/04/22 18:08*	*1*
13C2 PFDA	*99*		*70 - 130*	*09/28/22 17:00*	*10/04/22 18:08*	*1*
13C2 PFHxA	*103*		*70 - 130*	*09/28/22 17:00*	*10/04/22 18:08*	*1*

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

Job ID: 410-98188-1

Client Sample ID: FB-09142022
Date Collected: 09/14/22 12:05
Date Received: 09/16/22 11:06

Lab Sample ID: 410-98188-3
Matrix: 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		09/28/22 17:00	10/04/22 18:20	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluorononanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
NEtFOSAA	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
NMeFOSAA	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		09/28/22 17:00	10/04/22 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*09/28/22 17:00*	*10/04/22 18:20*	*1*
13C2 PFDA	*98*		*70 - 130*	*09/28/22 17:00*	*10/04/22 18:20*	*1*
13C2 PFHxA	*112*		*70 - 130*	*09/28/22 17:00*	*10/04/22 18:20*	*1*

Surrogate Summary

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

Job ID: 410-98188-1

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)
410-98188-1	IP-SPGT-0922	86	103	107
410-98188-2	IP-SPGT-0922 DUP	84	99	103
LCS 410-300939/2-A	Lab Control Sample	81	94	111
LCSD 410-300939/3-A	Lab Control Sample Dup	80	100	108
MB 410-300939/1-A	Method Blank	91	98	115

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFDA = 13C2 PFDA

PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: 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)
410-98188-3	FB-09142022	85	98	112

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFDA = 13C2 PFDA

PFHxA = 13C2 PFHxA

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

Job ID: 410-98188-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-300939/1-A
Matrix: Drinking Water
Analysis Batch: 302804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluorononanoic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
NEtFOSAA	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
NMeFOSAA	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		09/28/22 17:00	10/04/22 17:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*09/28/22 17:00*	*10/04/22 17:10*	*1*
13C2 PFDA	*98*		*70 - 130*	*09/28/22 17:00*	*10/04/22 17:10*	*1*
13C2 PFHxA	*115*		*70 - 130*	*09/28/22 17:00*	*10/04/22 17:10*	*1*

Lab Sample ID: LCS 410-300939/2-A
Matrix: Drinking Water
Analysis Batch: 302804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	80.0	84.2	E	ng/L		105	70 - 130
Perfluoroheptanoic acid	80.0	82.9	E	ng/L		104	70 - 130
Perfluorooctanoic acid	80.0	78.1		ng/L		98	70 - 130
Perfluorononanoic acid	80.0	74.5		ng/L		93	70 - 130
Perfluorodecanoic acid	80.0	69.4		ng/L		87	70 - 130
Perfluorotridecanoic acid	80.0	66.0		ng/L		82	70 - 130
Perfluorotetradecanoic acid	80.0	66.5		ng/L		83	70 - 130
Perfluorobutanesulfonic acid	70.8	60.5		ng/L		85	70 - 130
Perfluorohexanesulfonic acid	73.0	66.6		ng/L		91	70 - 130
Perfluorooctanesulfonic acid	74.0	65.7		ng/L		89	70 - 130
NEtFOSAA	80.0	65.5		ng/L		82	70 - 130
NMeFOSAA	80.0	65.9		ng/L		82	70 - 130
Perfluoroundecanoic acid	80.0	72.5		ng/L		91	70 - 130
Perfluorododecanoic acid	80.0	70.9		ng/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*81*		*70 - 130*
13C2 PFDA	*94*		*70 - 130*
13C2 PFHxA	*111*		*70 - 130*

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

Lab Sample ID: LCSD 410-300939/3-A
Matrix: Drinking Water
Analysis Batch: 302804

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300939

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	78.2		ng/L		98	70 - 130	7	30
Perfluoroheptanoic acid			80.0	84.1	E	ng/L		105	70 - 130	1	30
Perfluorooctanoic acid			80.0	77.5		ng/L		97	70 - 130	1	30
Perfluorononanoic acid			80.0	77.8		ng/L		97	70 - 130	4	30
Perfluorodecanoic acid			80.0	73.9		ng/L		92	70 - 130	6	30
Perfluorotridecanoic acid			80.0	68.9		ng/L		86	70 - 130	4	30
Perfluorotetradecanoic acid			80.0	68.0		ng/L		85	70 - 130	2	30
Perfluorobutanesulfonic acid			70.8	57.3		ng/L		81	70 - 130	5	30
Perfluorohexanesulfonic acid			73.0	70.5		ng/L		97	70 - 130	6	30
Perfluorooctanesulfonic acid			74.0	69.9		ng/L		94	70 - 130	6	30
NEtFOSAA			80.0	64.4		ng/L		80	70 - 130	2	30
NMeFOSAA			80.0	67.9		ng/L		85	70 - 130	3	30
Perfluoroundecanoic acid			80.0	69.0		ng/L		86	70 - 130	5	30
Perfluorododecanoic acid			80.0	71.2		ng/L		89	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*80*		*70 - 130*
13C2 PFDA	*100*		*70 - 130*
13C2 PFHxA	*108*		*70 - 130*

QC Association Summary

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

Job ID: 410-98188-1

LCMS

Prep Batch: 300939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-98188-1	IP-SPGT-0922	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-98188-2	IP-SPGT-0922 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-98188-3	FB-09142022	Total/NA	Water	EPA 537 Ver 1.1	
MB 410-300939/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-300939/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-300939/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 302804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-98188-1	IP-SPGT-0922	Total/NA	Drinking Water	EPA 537 Ver 1.1	300939
410-98188-2	IP-SPGT-0922 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	300939
410-98188-3	FB-09142022	Total/NA	Water	EPA 537 Ver 1.1	300939
MB 410-300939/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	300939
LCS 410-300939/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	300939
LCSD 410-300939/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	300939

Lab Chronicle

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

Job ID: 410-98188-1

Client Sample ID: IP-SPGT-0922

Lab Sample ID: 410-98188-1

Date Collected: 09/14/22 12:00

Matrix: Drinking Water

Date Received: 09/16/22 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			300939	QLP7	ELLE	09/28/22 17:00
Total/NA	Analysis	EPA 537 Ver 1.1		1	302804	DCS9	ELLE	10/04/22 17:57

Client Sample ID: IP-SPGT-0922 DUP

Lab Sample ID: 410-98188-2

Date Collected: 09/14/22 12:00

Matrix: Drinking Water

Date Received: 09/16/22 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			300939	QLP7	ELLE	09/28/22 17:00
Total/NA	Analysis	EPA 537 Ver 1.1		1	302804	DCS9	ELLE	10/04/22 18:08

Client Sample ID: FB-09142022

Lab Sample ID: 410-98188-3

Date Collected: 09/14/22 12:05

Matrix: Water

Date Received: 09/16/22 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			300939	QLP7	ELLE	09/28/22 17:00
Total/NA	Analysis	EPA 537 Ver 1.1		1	302804	DCS9	ELLE	10/04/22 18:20

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-98188-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	10-06-22

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
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroundecanoic acid

Method Summary

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

Job ID: 410-98188-1

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:

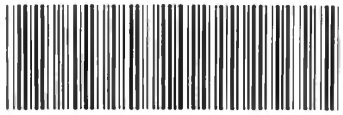
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

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

Job ID: 410-98188-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-98188-1	IP-SPGT-0922	Drinking Water	09/14/22 12:00	09/16/22 11:06
410-98188-2	IP-SPGT-0922 DUP	Drinking Water	09/14/22 12:00	09/16/22 11:06
410-98188-3	FB-09142022	Water	09/14/22 12:05	09/16/22 11:06



410-98188 Chain of Custody

nvironme

Chain of Custody Record

eurofins Environment Testing America

	Sampler: M. KENNEY / M. NGUYEN	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-65156-8726 1
Client Contact: Mr. Matthew Kenney	Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 1 of 1
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; Y - Trizma; Z - other (specify); Other:
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: 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 - PFAS - Potable 14 Standard	537_DW - PFAS - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	Y	N	X	
IP-SPGT-0922	9/14/22	1200	G	Drinking Wate			X			
IP-SPGT-0922 DUP	1	1200	G	Drinking Wate			X			
FB-09142022		1205	G	Water				X		M. NGUYEN
				Water						

MK

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

Sample Disposal (A fee may be ass essed 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: Karen Smith	Date/Time: 9-9-22 10:20	Company: E2LE	Received by:	Date/Time: 9/14/22 1145	Company: WESTON		
Relinquished by:	Date/Time: 9/15/22 1310	Company: WESTON	Received by:	Date/Time:	Company:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 9/16/22 1106	Company: FEDEX		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.5				

MB

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-98188-1

Login Number: 98188

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Ballard, Megan

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-102002-1

WESTON SAMPLE IDs: FB-10132022, IP-SPGT-1022, IP-SPGT-1022 DUP

Data Reviewed	Fraction				Comments
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				
Preservation/Log Sheet	√				Sample IP-SPGT-1022 DUP was received with a pH of 6.0. No qualifiers needed.
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	LCSD 410-308313/3-A				PFDoA recovered above the acceptance limits in the LCSD. There were no detections of PFDoA in the samples. No qualifiers needed.
ICAL/ICV/CCV	√				
Lab Duplicates	NA				
Field Duplicates	IP-SPGT-1022 and IP-SPGT-1022 DUP				PFOA RPD >30%. Qualify PFOA detections as estimated J.
Isotope Dilution Recoveries	√				

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: J

Data Reviewer Initials: RBE

Date: 2/7/2023

eurofins | Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 410-102002-1
Client Project/Site: Nantucket

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

Attn: Michael Kanarek

Elizabeth M. Zanar

Authorized for release by:
10/27/2022 4:13:27 PM

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

LINKS

Review your project results through my EOL

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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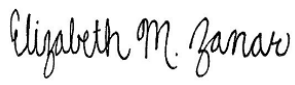

Elizabeth Zanar
Project Manager
10/27/2022 4:13:27 PM

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Definitions/Glossary

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

Job ID: 410-102002-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail

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 Environment Testing, LLC	Project #:	410-102002-1
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:** 10/26/2022

Case Narrative

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

Job ID: 410-102002-1

Job ID: 410-102002-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-102002-1

Receipt
The samples were received on 10/14/2022 10:05 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 1.7°C

PFAS
Method 537_DW: The reference method requires samples to be preserved to a pH of 6.5-7.5. The following sample was received with insufficient preservation at a pH of 6.0: IP-SPGT-1022 DUP (410-102002-3).

Method 537_DW: The recovery for the following target compound(s): Perfluorododecanoic acid in the laboratory control samples associated with the following samples: FB-10132022 (410-102002-1), IP-SPGT-1022 (410-102002-2) and IP-SPGT-1022 DUP (410-102002-3) is outside of QC acceptance limits. Because the recovery is high, and the target compound(s) is not detected in the sample(s), the result(s) is reported.

Method 537_DW: The recovery for the following target compound(s): Perfluorododecanoic acid in the laboratory control samples associated with the following samples: FB-10132022 (410-102002-1), IP-SPGT-1022 (410-102002-2) and IP-SPGT-1022 DUP (410-102002-3) is outside of QC acceptance limits. Because the recovery is high, and the target compound(s) is not detected in the sample(s), the result(s) is reported.

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: 410-102002-1

Client Sample ID: FB-10132022 — Lab Sample ID: 410-102002-1

No Detections.

Client Sample ID: IP-SPGT-1022 — Lab Sample ID: 410-102002-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.6		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	5.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	9.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorodecanoic acid	2.4		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	1.7		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	4.8		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: IP-SPGT-1022 DUP — Lab Sample ID: 410-102002-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	4.4		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	6.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	4.9		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-10132022

Date Collected: 10/13/22 14:00
Date Received: 10/14/22 10:05

Lab Sample ID: 410-102002-1

Matrix: 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		10/19/22 12:46	10/21/22 16:51	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
NEtFOSAA	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
NMeFOSAA	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1
Perfluorododecanoic acid	<1.8	*+ cn	1.8		ng/L		10/19/22 12:46	10/21/22 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*94*		*70 - 130*	*10/19/22 12:46*	*10/21/22 16:51*	*1*
13C2 PFDA	*128*		*70 - 130*	*10/19/22 12:46*	*10/21/22 16:51*	*1*
13C2 PFHxA	*110*		*70 - 130*	*10/19/22 12:46*	*10/21/22 16:51*	*1*

Client Sample ID: IP-SPGT-1022

Date Collected: 10/13/22 14:20
Date Received: 10/14/22 10:05

Lab Sample ID: 410-102002-2

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	**3.6**		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluoroheptanoic acid	**5.5**		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluorooctanoic acid	**9.2**		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluorodecanoic acid	**2.4**		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluorobutanesulfonic acid	**1.7**		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluorooctanesulfonic acid	**4.8**		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
NEtFOSAA	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
NMeFOSAA	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1
Perfluorododecanoic acid	<1.7	*+ cn	1.7		ng/L		10/19/22 12:46	10/21/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*10/19/22 12:46*	*10/21/22 17:03*	*1*
13C2 PFDA	*128*		*70 - 130*	*10/19/22 12:46*	*10/21/22 17:03*	*1*
13C2 PFHxA	*104*		*70 - 130*	*10/19/22 12:46*	*10/21/22 17:03*	*1*

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

Job ID: 410-102002-1

Client Sample ID: IP-SPGT-1022 DUP

Date Collected: 10/13/22 14:20
Date Received: 10/14/22 10:05

Lab Sample ID: 410-102002-3

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	**3.1**		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluoroheptanoic acid	**4.4**		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluorooctanoic acid	**6.5**		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluorooctanesulfonic acid	**4.9**		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
NEtFOSAA	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
NMeFOSAA	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1
Perfluorododecanoic acid	<1.7	*+ cn	1.7		ng/L		10/19/22 12:46	10/21/22 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*73*		*70 - 130*	*10/19/22 12:46*	*10/21/22 17:14*	*1*
13C2 PFDA	*84*		*70 - 130*	*10/19/22 12:46*	*10/21/22 17:14*	*1*
13C2 PFHxA	*86*		*70 - 130*	*10/19/22 12:46*	*10/21/22 17:14*	*1*

Surrogate Summary

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

Job ID: 410-102002-1

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)
410-102002-2	IP-SPGT-1022	96	128	104
410-102002-3	IP-SPGT-1022 DUP	73	84	86
LCS 410-308313/2-A	Lab Control Sample	104	105	93
LCSD 410-308313/3-A	Lab Control Sample Dup	96	113	98
MB 410-308313/1-A	Method Blank	86	103	97

Surrogate Legend

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

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: 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)
410-102002-1	FB-10132022	94	128	110

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 410-308313/1-A
Matrix: Drinking Water
Analysis Batch: 309247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
NEtFOSAA	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
NMeFOSAA	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/19/22 12:46	10/21/22 16:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*10/19/22 12:46*	*10/21/22 16:04*	*1*
13C2 PFDA	*103*		*70 - 130*	*10/19/22 12:46*	*10/21/22 16:04*	*1*
13C2 PFHxA	*97*		*70 - 130*	*10/19/22 12:46*	*10/21/22 16:04*	*1*

Lab Sample ID: LCS 410-308313/2-A
Matrix: Drinking Water
Analysis Batch: 309247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	20.5	21.7		ng/L		106	70 - 130
Perfluoroheptanoic acid	20.5	23.2		ng/L		113	70 - 130
Perfluorooctanoic acid	20.5	23.7		ng/L		115	70 - 130
Perfluorononanoic acid	20.5	24.5		ng/L		120	70 - 130
Perfluorodecanoic acid	20.5	23.9		ng/L		117	70 - 130
Perfluorotridecanoic acid	20.5	22.5		ng/L		110	70 - 130
Perfluorotetradecanoic acid	20.5	24.7		ng/L		121	70 - 130
Perfluorobutanesulfonic acid	18.1	15.3		ng/L		84	70 - 130
Perfluorohexanesulfonic acid	18.7	19.1		ng/L		102	70 - 130
Perfluorooctanesulfonic acid	19.0	19.7		ng/L		104	70 - 130
NEtFOSAA	20.5	22.9		ng/L		112	70 - 130
NMeFOSAA	20.5	20.5		ng/L		100	70 - 130
Perfluoroundecanoic acid	20.5	23.8		ng/L		116	70 - 130
Perfluorododecanoic acid	20.5	23.2		ng/L		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*104*		*70 - 130*
13C2 PFDA	*105*		*70 - 130*
13C2 PFHxA	*93*		*70 - 130*

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

Lab Sample ID: LCSD 410-308313/3-A
Matrix: Drinking Water
Analysis Batch: 309247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 308313

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	23.6		ng/L		115	70 - 130	8	30
Perfluoroheptanoic acid			20.5	25.4		ng/L		124	70 - 130	9	30
Perfluorooctanoic acid			20.5	25.7		ng/L		126	70 - 130	8	30
Perfluorononanoic acid			20.5	26.2		ng/L		128	70 - 130	7	30
Perfluorodecanoic acid			20.5	25.7		ng/L		125	70 - 130	7	30
Perfluorotridecanoic acid			20.5	26.1		ng/L		127	70 - 130	15	30
Perfluorotetradecanoic acid			20.5	26.1		ng/L		127	70 - 130	6	30
Perfluorobutanesulfonic acid			18.1	15.7		ng/L		87	70 - 130	3	30
Perfluorohexanesulfonic acid			18.7	20.0		ng/L		107	70 - 130	4	30
Perfluorooctanesulfonic acid			19.0	20.5		ng/L		108	70 - 130	4	30
NEtFOSAA			20.5	21.2		ng/L		103	70 - 130	8	30
NMeFOSAA			20.5	20.2		ng/L		98	70 - 130	2	30
Perfluoroundecanoic acid			20.5	25.5		ng/L		125	70 - 130	7	30
Perfluorododecanoic acid			20.5	27.3	*+	ng/L		133	70 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*96*		*70 - 130*
13C2 PFDA	*113*		*70 - 130*
13C2 PFHxA	*98*		*70 - 130*

LCMS

Prep Batch: 308313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-102002-1	FB-10132022	Total/NA	Water	EPA 537 Ver 1.1	
410-102002-2	IP-SPGT-1022	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-102002-3	IP-SPGT-1022 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-308313/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-308313/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-308313/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 309247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-102002-1	FB-10132022	Total/NA	Water	EPA 537 Ver 1.1	308313
410-102002-2	IP-SPGT-1022	Total/NA	Drinking Water	EPA 537 Ver 1.1	308313
410-102002-3	IP-SPGT-1022 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	308313
MB 410-308313/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	308313
LCS 410-308313/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	308313
LCSD 410-308313/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	308313

Lab Chronicle

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

Job ID: 410-102002-1

Client Sample ID: FB-10132022

Date Collected: 10/13/22 14:00
Date Received: 10/14/22 10:05

Lab Sample ID: 410-102002-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			308313	HQ8B	ELLE	10/19/22 12:46
Total/NA	Analysis	EPA 537 Ver 1.1		1	309247	DCS9	ELLE	10/21/22 16:51

Client Sample ID: IP-SPGT-1022

Date Collected: 10/13/22 14:20
Date Received: 10/14/22 10:05

Lab Sample ID: 410-102002-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			308313	HQ8B	ELLE	10/19/22 12:46
Total/NA	Analysis	EPA 537 Ver 1.1		1	309247	DCS9	ELLE	10/21/22 17:03

Client Sample ID: IP-SPGT-1022 DUP

Date Collected: 10/13/22 14:20
Date Received: 10/14/22 10:05

Lab Sample ID: 410-102002-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			308313	HQ8B	ELLE	10/19/22 12:46
Total/NA	Analysis	EPA 537 Ver 1.1		1	309247	DCS9	ELLE	10/21/22 17:14

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-102002-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	06-30-23

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
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroundecanoic acid

Method Summary

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

Job ID: 410-102002-1

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 Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

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

Job ID: 410-102002-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-102002-1	FB-10132022	Water	10/13/22 14:00	10/14/22 10:05
410-102002-2	IP-SPGT-1022	Drinking Water	10/13/22 14:20	10/14/22 10:05
410-102002-3	IP-SPGT-1022 DUP	Drinking Water	10/13/22 14:20	10/14/22 10:05

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

Chain of Custody Record

410-102002 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY	Lab PM: Zanar, Elizabeth M	COC No: 10-67326-8726.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 1 of 1
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, Y - Trizma, 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: NANTUCKET	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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - PFAS - Potable 14 Standard	537_DW - PFAS - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	Y	N	X	
FB-10132022	10/13/22	1400	G	~~Drinking Wate~~ (AE)				X		
IP-SPGT-1022	10/13/22	1420	G	Drinking Wate			X			
IP-SPGT-1022 DUP	10/13/22	1420	G	D. Water			X			
				~~Water~~						

MK

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

Sample Disposal (A fee may be ass essed 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: 10-10-22 1155	Company	Received by:	Date/Time: 10/13/22 1300	Company: WESTON
Relinquished by:	Date/Time: 10/13/22 1450	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Debra A. Bya	Date/Time: 10-14-22 10:05	Company: ELLE
Custody Seals Intact: ✓Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.7		

SR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-102002-1

Login Number: 102002 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: Roth, Stephanie

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-102002-1
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:** 10/26/2022

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-104055-1

WESTON SAMPLE IDs: FB-103122, EB-103122, WL-14-S-00-01, WL-14-S-01-02, WL-14-S-03-04, WL-15-S-00-01 WL-15-S-01-02, WL-15-S-03-04, WL-16-S-00-01, WL-16-S-01-02, WL-16-S-03-04, WL-17-S-00-01, WL-17-S-01-02, WL-17-S-01-02 DUP, WL-17-S-03-04, WL-18-S-00-01, WL-18-S-01-02, WL-18-S-03-04, EB-103122-2, WL-19-S-00-01, EB-103122-3, EB-103122-4, SL-08-S-00-01

Data Reviewed	**Fraction**				**Comments**
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				Analytes reported between MDL and RL flagged as estimated J.
Preservation/Log Sheet	√				
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	√				
ICAL/ICV/CCV	√				Laboratory noted that 10:2 FTS recovered above the QC limits in the CCVs, but was not detected in associated samples. No qualifiers applied.
Lab Duplicates	NA				
Field Duplicates	√				WL-17-S-01-02 and WL-17-S-01-02 DUP
Isotope Dilution Recoveries	WL-17-S-01-02 WL-17-S-01-02 DUP WL-18-S-00-01 WL-18-S-01-02				d3-NMeFOSAA and d5-NEtFOSAA low: qualify NMeFOSAA and NEtFOSAA as estimated non-detect, UJ.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: UJ, J

Data Reviewer Initials: RBE
Date: 1/25/2023

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

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JOB DESCRIPTION

Nantucket

JOB NUMBER

410-104055-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

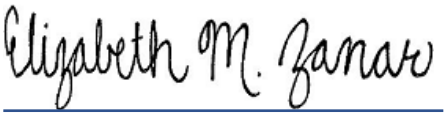
See page two for job notes and contact information.

my EOL

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Revision 1

Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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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Definitions/Glossary

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

Job ID: 410-104055-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
cn	Refer to Case Narrative for further detail
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

Case Narrative

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

Job ID: 410-104055-1

Job ID: 410-104055-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-104055-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 1/5/2023. The report (revision 1) is being revised due to: the MA MCP Checklist being added.

Receipt
The samples were received on 11/2/2022 10:00 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 0.6º C.

LCMS
Method 537 (modified): The recovery for target analyte 10:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the result is high and target 10:2 FTS is not detected in the following samples: WL-14-S-00-01 (410-104055-3), WL-15-S-00-01 (410-104055-6), WL-16-S-00-01 (410-104055-9), WL-17-S-00-01 (410-104055-12) and WL-18-S-00-01 (410-104055-16), the data is reported.

Method 537 (modified): The recovery for target analyte 10:2 FTS is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the result is high and target 10:2 FTS is not detected in the following samples: WL-19-S-00-01 (410-104055-20) and WL-20-S-00-01 (410-104055-24), the data is reported.

Method 537 (modified): The recovery for target analyte 10:2 FTS is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the result is high and target 10:2 FTS is not detected in the following samples: WL-14-S-01-02 (410-104055-4), WL-15-S-01-02 (410-104055-7), WL-16-S-01-02 (410-104055-10), WL-17-S-01-02 (410-104055-13) and WL-17-S-01-02 DUP (410-104055-14), the data is reported.

Method 537 (modified): The recovery for target analyte 10:2 FTS is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the result is high and target 10:2 FTS is not detected in the following samples: WL-14-S-03-04 (410-104055-5), WL-15-S-03-04 (410-104055-8) and WL-16-S-03-04 (410-104055-11), the data is reported.

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: 410-104055-1

Client Sample ID: FB-103122 — Lab Sample ID: 410-104055-1

No Detections.

Client Sample ID: EB-103122 — Lab Sample ID: 410-104055-2

No Detections.

Client Sample ID: WL-14-S-00-01 — Lab Sample ID: 410-104055-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.69		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.60	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.93		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.45	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.39	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.6		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	1.0	J	2.1	0.82	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.7		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-14-S-01-02 — Lab Sample ID: 410-104055-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.3		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.48	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	3.9		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.36	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.0	I	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.2		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-14-S-03-04 — Lab Sample ID: 410-104055-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.20	J	0.56	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-15-S-00-01 — Lab Sample ID: 410-104055-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.67		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.73		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.4		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.55	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.3		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	1.1	J	2.2	0.87	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.3		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-15-S-01-02 — Lab Sample ID: 410-104055-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.0		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.6		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.3		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.4		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	1.5	J	2.1	0.85	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	2.6		0.64	0.21	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: 410-104055-1

Client Sample ID: WL-15-S-03-04 — Lab Sample ID: 410-104055-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic 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: WL-16-S-00-01 — Lab Sample ID: 410-104055-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.39	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.26	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.48	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.60		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.93		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.64		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-16-S-01-02 — Lab Sample ID: 410-104055-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.2		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.0		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.5		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.36	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	3.4		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	1.0	J	2.1	0.85	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.7		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-16-S-03-04 — Lab Sample ID: 410-104055-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.26	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.33	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.36	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.21	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-17-S-00-01 — Lab Sample ID: 410-104055-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.1		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.0		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.1		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.69		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	19		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.2		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-17-S-01-02 — Lab Sample ID: 410-104055-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.0		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.6		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.2		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.80		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.7		0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.0		0.65	0.22	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: 410-104055-1

Client Sample ID: WL-17-S-01-02 DUP — Lab Sample ID: 410-104055-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.98		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.9		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.0		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.90		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.9		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.1		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-17-S-03-04 — Lab Sample ID: 410-104055-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.60	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-18-S-00-01 — Lab Sample ID: 410-104055-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	0.30	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.50	J I	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.74		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.42	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-18-S-01-02 — Lab Sample ID: 410-104055-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	0.35	J	0.69	0.23	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.3		0.69	0.23	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: WL-18-S-03-04 — Lab Sample ID: 410-104055-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.58	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: EB-103122-2 — Lab Sample ID: 410-104055-19

No Detections.

Client Sample ID: WL-19-S-00-01 — Lab Sample ID: 410-104055-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.36	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.27	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.85		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.21	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: EB-103122-3 — Lab Sample ID: 410-104055-27

No Detections.

Client Sample ID: EB-103122-4 — Lab Sample ID: 410-104055-28

No Detections.

Client Sample ID: SL-08-S-00-01 — Lab Sample ID: 410-104055-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.39	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.29	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SL-08-S-00-01 (Continued)

Lab Sample ID: 410-104055-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.48	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.35	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.34	J	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.8		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.97		0.59	0.20	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 410-104055-1

Client Sample ID: FB-103122

Date Collected: 10/31/22 08:10
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-1

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.80		1.8	0.80	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluoroheptanoic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorooctanoic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorononanoic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorodecanoic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorotridecanoic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorotetradecanoic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorobutanesulfonic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorohexanesulfonic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorooctanesulfonic acid	<0.89		1.8	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1
NEtFOSAA	<0.45		2.7	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
NMeFOSAA	<0.53		1.8	0.53	ng/L		11/06/22 09:59	11/09/22 05:55	1
10:2 FTS	<0.89		4.5	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluoropentanesulfonic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluoroheptanesulfonic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorononanesulfonic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorodecanesulfonic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.45		2.7	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorooctanesulfonamide	<0.62		1.8	0.62	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorohexadecanoic acid	<0.89		2.7	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorooctadecanoic acid	<0.89		2.7	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorobutanoic acid	<1.8		4.5	1.8	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluoropentanoic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
NMeFOSE	<0.89		2.7	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1
NMeFOSA	<0.89		2.7	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1
NEtFOSE	<0.89		2.7	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1
NEtFOSA	<0.89		4.5	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1
HFPODA	<0.89		2.7	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1
DONA	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
9Cl-PF3ONS	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
11Cl-PF3OUdS	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluorododecanoic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
4:2 Fluorotelomer sulfonic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
Perfluoroundecanoic acid	<0.45		1.8	0.45	ng/L		11/06/22 09:59	11/09/22 05:55	1
6:2 Fluorotelomer sulfonic acid	<3.7		4.5	3.7	ng/L		11/06/22 09:59	11/09/22 05:55	1
8:2 Fluorotelomer sulfonic acid	<0.89		2.7	0.89	ng/L		11/06/22 09:59	11/09/22 05:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*110*		*10 - 200*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
M2-8:2 FTS	*91*		*33 - 200*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
M2-6:2 FTS	*93*		*17 - 200*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
13C5 PFHxA	*90*		*24 - 179*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
13C4 PFHpA	*90*		*31 - 182*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
13C8 PFOA	*87*		*48 - 162*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
13C9 PFNA	*95*		*51 - 167*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
13C6 PFDA	*85*		*49 - 163*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
13C7 PFUnA	*84*		*34 - 174*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
13C2-PFDoDA	*82*		*17 - 176*	*11/06/22 09:59*	*11/09/22 05:55*	*1*
13C2 PFTeDA	*83*		*10 - 179*	*11/06/22 09:59*	*11/09/22 05:55*	*1*

Client Sample ID: FB-103122

Lab Sample ID: 410-104055-1

Date Collected: 10/31/22 08:10

Matrix: Water

Date Received: 11/02/22 10:00

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	89		16 - 200	11/06/22 09:59	11/09/22 05:55	1
13C3 PFHxS	90		28 - 188	11/06/22 09:59	11/09/22 05:55	1
13C8 PFOS	94		51 - 159	11/06/22 09:59	11/09/22 05:55	1
d3-NMeFOSAA	96		31 - 174	11/06/22 09:59	11/09/22 05:55	1
d5-NEtFOSAA	78		29 - 195	11/06/22 09:59	11/09/22 05:55	1
13C8 FOSA	71		10 - 168	11/06/22 09:59	11/09/22 05:55	1
13C4 PFBA	93		42 - 165	11/06/22 09:59	11/09/22 05:55	1
13C5 PFPeA	85		38 - 187	11/06/22 09:59	11/09/22 05:55	1
d7-N-MeFOSE-M	72		10 - 178	11/06/22 09:59	11/09/22 05:55	1
d3-NMePFOSA	61		10 - 155	11/06/22 09:59	11/09/22 05:55	1
d9-N-EtFOSE-M	69		10 - 177	11/06/22 09:59	11/09/22 05:55	1
d5-NEtPFOSA	70		10 - 159	11/06/22 09:59	11/09/22 05:55	1
13C3 HFPO-DA	104		17 - 185	11/06/22 09:59	11/09/22 05:55	1

Client Sample ID: EB-103122

Lab Sample ID: 410-104055-2

Date Collected: 10/31/22 08:20

Matrix: Water

Date Received: 11/02/22 10:00

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.75		1.7	0.75	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluoroheptanoic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorooctanoic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorononanoic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorodecanoic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorotridecanoic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorotetradecanoic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorobutanesulfonic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorohexanesulfonic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorooctanesulfonic acid	<0.84		1.7	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1
NEtFOSAA	<0.42		2.5	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
NMeFOSAA	<0.50		1.7	0.50	ng/L		11/06/22 09:59	11/09/22 06:06	1
10:2 FTS	<0.84		4.2	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluoropentanesulfonic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluoroheptanesulfonic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorononanesulfonic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorodecanesulfonic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorododecanesulfonic acid (PFDoS)	<0.42		2.5	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorooctanesulfonamide	<0.59		1.7	0.59	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorohexadecanoic acid	<0.84		2.5	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorooctadecanoic acid	<0.84		2.5	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorobutanoic acid	<1.7		4.2	1.7	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluoropentanoic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
NMeFOSE	<0.84		2.5	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1
NMeFOSA	<0.84		2.5	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1
NEtFOSE	<0.84		2.5	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1
NEtFOSA	<0.84		4.2	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1
HFPODA	<0.84		2.5	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1
DONA	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1

Client Sample ID: EB-103122

Lab Sample ID: 410-104055-2

Date Collected: 10/31/22 08:20

Matrix: Water

Date Received: 11/02/22 10:00

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
11Cl-PF3OUdS	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluorododecanoic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
4:2 Fluorotelomer sulfonic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
Perfluoroundecanoic acid	<0.42		1.7	0.42	ng/L		11/06/22 09:59	11/09/22 06:06	1
6:2 Fluorotelomer sulfonic acid	<3.5		4.2	3.5	ng/L		11/06/22 09:59	11/09/22 06:06	1
8:2 Fluorotelomer sulfonic acid	<0.84		2.5	0.84	ng/L		11/06/22 09:59	11/09/22 06:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*94*		*10 - 200*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
M2-8:2 FTS	*110*		*33 - 200*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
M2-6:2 FTS	*90*		*17 - 200*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C5 PFHxA	*94*		*24 - 179*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C4 PFHpA	*90*		*31 - 182*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C8 PFOA	*88*		*48 - 162*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C9 PFNA	*94*		*51 - 167*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C6 PFDA	*91*		*49 - 163*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C7 PFUnA	*93*		*34 - 174*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C2-PFDoDA	*92*		*17 - 176*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C2 PFTeDA	*114*		*10 - 179*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C3 PFBS	*84*		*16 - 200*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C3 PFHxS	*86*		*28 - 188*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C8 PFOS	*98*		*51 - 159*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
d3-NMeFOSAA	*99*		*31 - 174*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
d5-NEtFOSAA	*92*		*29 - 195*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C8 FOSA	*75*		*10 - 168*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C4 PFBA	*94*		*42 - 165*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C5 PFPeA	*96*		*38 - 187*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
d7-N-MeFOSE-M	*70*		*10 - 178*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
d3-NMePFOSA	*71*		*10 - 155*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
d9-N-EtFOSE-M	*72*		*10 - 177*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
d5-NEtPFOSA	*74*		*10 - 159*	*11/06/22 09:59*	*11/09/22 06:06*	*1*
13C3 HFPO-DA	*90*		*17 - 185*	*11/06/22 09:59*	*11/09/22 06:06*	*1*

Client Sample ID: WL-14-S-00-01

Lab Sample ID: 410-104055-3

Date Collected: 10/31/22 08:30

Matrix: Solid

Date Received: 11/02/22 10:00

Percent Solids: 93.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.69**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluoroheptanoic acid	**0.60**	**J**	0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorooctanoic acid	**0.93**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorononanoic acid	**0.45**	**J**	0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorohexanesulfonic acid	**0.39**	**J**	0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorooctanesulfonic acid	**1.6**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1

Client Sample ID: WL-14-S-00-01

Date Collected: 10/31/22 08:30
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-3

Matrix: Solid
Percent Solids: 93.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
10:2 FTS	<0.62	cn	2.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorobutanoic acid	**1.0**	**J**	2.1	0.82	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluoropentanoic acid	**1.7**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
NMeFOSE	<0.51		2.1	0.51	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
NMeFOSA	<0.51		2.1	0.51	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
NEtFOSE	<0.51		2.1	0.51	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
NEtFOSA	<0.51		2.1	0.51	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 06:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*74*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
M2-6:2 FTS	*83*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C5 PFHxA	*70*		*10 - 174*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C4 PFHpA	*75*		*10 - 178*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C8 PFOA	*72*		*26 - 159*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C9 PFNA	*84*		*26 - 165*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C6 PFDA	*73*		*26 - 161*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C7 PFUnA	*86*		*12 - 173*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C2-PFDoDA	*79*		*11 - 166*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C2 PFTeDA	*78*		*10 - 169*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C3 PFBS	*74*		*27 - 179*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C3 PFHxS	*73*		*24 - 171*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C8 PFOS	*82*		*41 - 154*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
d3-NMeFOSAA	*32*		*10 - 178*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
d5-NEtFOSAA	*47*		*10 - 193*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C8 FOSA	*69*		*14 - 163*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C4 PFBA	*70*		*28 - 153*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
13C5 PFPeA	*70*		*24 - 161*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
d7-N-MeFOSE-M	*67*		*10 - 179*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
d3-NMePFOSA	*50*		*10 - 175*	*11/06/22 11:28*	*11/10/22 06:25*	*1*
d9-N-EtFOSE-M	*68*		*10 - 185*	*11/06/22 11:28*	*11/10/22 06:25*	*1*

Client Sample ID: WL-14-S-00-01

Lab Sample ID: 410-104055-3

Date Collected: 10/31/22 08:30
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 93.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	54		10 - 180	11/06/22 11:28	11/10/22 06:25	1
13C3 HFPO-DA	64		10 - 169	11/06/22 11:28	11/10/22 06:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.4		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: WL-14-S-01-02

Lab Sample ID: 410-104055-4

Date Collected: 10/31/22 08:35
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 91.0

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.3		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluoroheptanoic acid	0.48	J	0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorooctanoic acid	3.9		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorononanoic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorodecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorotridecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorotetradecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorobutanesulfonic acid	<0.41		2.0	0.41	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorohexanesulfonic acid	0.36	J	0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorooctanesulfonic acid	1.0	I	0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
10:2 FTS	<0.61	cn	2.0	0.61	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluoropentanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluoroheptanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorononanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorodecanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorooctanesulfonamide	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorohexadecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorooctadecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorobutanoic acid	<0.81		2.0	0.81	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluoropentanoic acid	1.2		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
NMeFOSE	<0.51		2.0	0.51	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
NMeFOSA	<0.51		2.0	0.51	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
NEtFOSE	<0.51		2.0	0.51	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
NEtFOSA	<0.51		2.0	0.51	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
HFPODA	<1.0		2.0	1.0	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
DONA	<0.20		3.1	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
11Cl-PF3OUdS	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluorododecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
4:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
Perfluoroundecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
6:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1
8:2 Fluorotelomer sulfonic acid	<0.61		3.1	0.61	ng/g	☼	11/22/22 09:33	11/23/22 14:11	1

Client Sample ID: WL-14-S-01-02

Lab Sample ID: 410-104055-4

Date Collected: 10/31/22 08:35
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 91.0

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
M2-8:2 FTS	*120*		*15 - 200*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
M2-6:2 FTS	*97*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C5 PFHxA	*83*		*10 - 174*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C4 PFHpA	*90*		*10 - 178*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C8 PFOA	*92*		*26 - 159*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C9 PFNA	*105*		*26 - 165*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C6 PFDA	*100*		*26 - 161*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C7 PFUnA	*105*		*12 - 173*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C2-PFDoDA	*103*		*11 - 166*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C2 PFTeDA	*102*		*10 - 169*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C3 PFBS	*112*		*27 - 179*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C3 PFHxS	*112*		*24 - 171*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C8 PFOS	*116*		*41 - 154*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
d3-NMeFOSAA	*16*		*10 - 178*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
d5-NEtFOSAA	*24*		*10 - 193*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C8 FOSA	*111*		*14 - 163*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C4 PFBA	*79*		*28 - 153*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C5 PFPeA	*85*		*24 - 161*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
d7-N-MeFOSE-M	*107*		*10 - 179*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
d3-NMePFOSA	*89*		*10 - 175*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
d9-N-EtFOSE-M	*111*		*10 - 185*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
d5-NEtPFOSA	*93*		*10 - 180*	*11/22/22 09:33*	*11/23/22 14:11*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*11/22/22 09:33*	*11/23/22 14:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.0**		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: WL-14-S-03-04

Lab Sample ID: 410-104055-5

Date Collected: 10/31/22 08:40
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 96.8

Method: EPA 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	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluoroheptanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorooctanoic acid	**0.20**	**J**	0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorononanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorodecanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorotridecanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorotetradecanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorohexanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorooctanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
10:2 FTS	<0.56	cn	1.9	0.56	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluoropentanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluoroheptanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorononanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1

Client Sample ID: WL-14-S-03-04
Date Collected: 10/31/22 08:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-5
Matrix: Solid
Percent Solids: 96.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorooctanesulfonamide	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorohexadecanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorooctadecanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorobutanoic acid	<0.75		1.9	0.75	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluoropentanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
NMeFOSE	<0.47		1.9	0.47	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
NMeFOSA	<0.47		1.9	0.47	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
NEtFOSE	<0.47		1.9	0.47	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
NEtFOSA	<0.47		1.9	0.47	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
HFPODA	<0.94		1.9	0.94	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
DONA	<0.19		2.8	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
11Cl-PF3OUdS	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluorododecanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
4:2 Fluorotelomer sulfonic acid	<0.56		1.9	0.56	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
Perfluoroundecanoic acid	<0.19		0.56	0.19	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
6:2 Fluorotelomer sulfonic acid	<0.56		1.9	0.56	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1
8:2 Fluorotelomer sulfonic acid	<0.56		2.8	0.56	ng/g	☼	11/22/22 09:33	11/23/22 14:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
M2-8:2 FTS	*100*		*15 - 200*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
M2-6:2 FTS	*101*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C5 PFHxA	*85*		*10 - 174*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C4 PFHpA	*91*		*10 - 178*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C8 PFOA	*87*		*26 - 159*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C9 PFNA	*99*		*26 - 165*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C6 PFDA	*90*		*26 - 161*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C7 PFUnA	*90*		*12 - 173*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C2-PFDoDA	*103*		*11 - 166*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C2 PFTeDA	*104*		*10 - 169*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C3 PFBS	*104*		*27 - 179*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C3 PFHxS	*110*		*24 - 171*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C8 PFOS	*116*		*41 - 154*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
d3-NMeFOSAA	*16*		*10 - 178*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
d5-NEtFOSAA	*21*		*10 - 193*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C8 FOSA	*98*		*14 - 163*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C4 PFBA	*80*		*28 - 153*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C5 PFPeA	*86*		*24 - 161*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
d7-N-MeFOSE-M	*101*		*10 - 179*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
d3-NMePFOSA	*90*		*10 - 175*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
d9-N-EtFOSE-M	*99*		*10 - 185*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
d5-NEtPFOSA	*95*		*10 - 180*	*11/22/22 09:33*	*11/23/22 14:22*	*1*
13C3 HFPO-DA	*85*		*10 - 169*	*11/22/22 09:33*	*11/23/22 14:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.2**		1.0	1.0	%			11/04/22 09:58	1

Client Sample ID: WL-15-S-00-01

Date Collected: 10/31/22 09:00
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-6

Matrix: Solid
Percent Solids: 90.5

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.67**		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluoroheptanoic acid	**0.73**		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorooctanoic acid	**1.4**		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorononanoic acid	**0.55**	**J**	0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorodecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorotridecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorotetradecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorobutanesulfonic acid	<0.43		2.2	0.43	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorohexanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorooctanesulfonic acid	**1.3**		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
NEtFOSAA	<0.22		2.2	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
NMeFOSAA	<0.22		2.2	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
10:2 FTS	<0.65	cn	2.2	0.65	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluoropentanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluoroheptanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorononanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorodecanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22		2.2	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorooctanesulfonamide	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorohexadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorooctadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorobutanoic acid	**1.1**	**J**	2.2	0.87	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluoropentanoic acid	**1.3**		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
NMeFOSE	<0.54		2.2	0.54	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
NMeFOSA	<0.54		2.2	0.54	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
NEtFOSE	<0.54		2.2	0.54	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
NEtFOSA	<0.54		2.2	0.54	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
HFPODA	<1.1		2.2	1.1	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
DONA	<0.22		3.3	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
9Cl-PF3ONS	<0.22		2.2	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
11Cl-PF3OUdS	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluorododecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
4:2 Fluorotelomer sulfonic acid	<0.65		2.2	0.65	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
Perfluoroundecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
6:2 Fluorotelomer sulfonic acid	<0.65		2.2	0.65	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1
8:2 Fluorotelomer sulfonic acid	<0.65		3.3	0.65	ng/g	☼	11/06/22 11:28	11/10/22 06:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*71*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
M2-8:2 FTS	*120*		*15 - 200*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
M2-6:2 FTS	*82*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
13C5 PFHxA	*62*		*10 - 174*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
13C4 PFHpA	*65*		*10 - 178*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
13C8 PFOA	*64*		*26 - 159*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
13C9 PFNA	*74*		*26 - 165*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
13C6 PFDA	*64*		*26 - 161*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
13C7 PFUnA	*69*		*12 - 173*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
13C2-PFDoDA	*66*		*11 - 166*	*11/06/22 11:28*	*11/10/22 06:36*	*1*
13C2 PFTeDA	*68*		*10 - 169*	*11/06/22 11:28*	*11/10/22 06:36*	*1*

Client Sample ID: WL-15-S-00-01

Lab Sample ID: 410-104055-6

Date Collected: 10/31/22 09:00
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 90.5

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	78		27 - 179	11/06/22 11:28	11/10/22 06:36	1
13C3 PFHxS	75		24 - 171	11/06/22 11:28	11/10/22 06:36	1
13C8 PFOS	82		41 - 154	11/06/22 11:28	11/10/22 06:36	1
d3-NMeFOSAA	34		10 - 178	11/06/22 11:28	11/10/22 06:36	1
d5-NEtFOSAA	44		10 - 193	11/06/22 11:28	11/10/22 06:36	1
13C8 FOSA	57		14 - 163	11/06/22 11:28	11/10/22 06:36	1
13C4 PFBA	60		28 - 153	11/06/22 11:28	11/10/22 06:36	1
13C5 PFPeA	59		24 - 161	11/06/22 11:28	11/10/22 06:36	1
d7-N-MeFOSE-M	57		10 - 179	11/06/22 11:28	11/10/22 06:36	1
d3-NMePFOSA	42		10 - 175	11/06/22 11:28	11/10/22 06:36	1
d9-N-EtFOSE-M	58		10 - 185	11/06/22 11:28	11/10/22 06:36	1
d5-NEtPFOSA	44		10 - 180	11/06/22 11:28	11/10/22 06:36	1
13C3 HFPO-DA	54		10 - 169	11/06/22 11:28	11/10/22 06:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.5		1.0	1.0	%			11/04/22 09:58	1

Client Sample ID: WL-15-S-01-02

Lab Sample ID: 410-104055-7

Date Collected: 10/31/22 09:05
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 89.5

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.0		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluoroheptanoic acid	1.6		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorooctanoic acid	1.3		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorononanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorodecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorooctanesulfonic acid	1.4		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
10:2 FTS	<0.64	cn	2.1	0.64	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorobutanoic acid	1.5	J	2.1	0.85	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluoropentanoic acid	2.6		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1

Client Sample ID: WL-15-S-01-02

Lab Sample ID: 410-104055-7

Date Collected: 10/31/22 09:05
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 89.5

Method: EPA 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	☼	11/22/22 09:33	11/23/22 14:33	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
DONA	<0.21		3.2	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
6:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1
8:2 Fluorotelomer sulfonic acid	<0.64		3.2	0.64	ng/g	☼	11/22/22 09:33	11/23/22 14:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
M2-6:2 FTS	*101*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C5 PFHxA	*91*		*10 - 174*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C4 PFHpA	*93*		*10 - 178*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C8 PFOA	*91*		*26 - 159*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C9 PFNA	*103*		*26 - 165*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C6 PFDA	*94*		*26 - 161*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C7 PFUnA	*104*		*12 - 173*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C2 PFTeDA	*111*		*10 - 169*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C3 PFBS	*100*		*27 - 179*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C3 PFHxS	*103*		*24 - 171*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C8 PFOS	*108*		*41 - 154*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
d3-NMeFOSAA	*25*		*10 - 178*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
d5-NEtFOSAA	*34*		*10 - 193*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C8 FOSA	*110*		*14 - 163*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C4 PFBA	*89*		*28 - 153*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C5 PFPeA	*92*		*24 - 161*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
d7-N-MeFOSE-M	*107*		*10 - 179*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
d3-NMePFOSA	*103*		*10 - 175*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
d5-NEtPFOSA	*107*		*10 - 180*	*11/22/22 09:33*	*11/23/22 14:33*	*1*
13C3 HFPO-DA	*95*		*10 - 169*	*11/22/22 09:33*	*11/23/22 14:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.5**		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: WL-15-S-03-04

Lab Sample ID: 410-104055-8

Date Collected: 10/31/22 09:10
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 96.6

Method: EPA 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	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluoroheptanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorooctanoic acid	**0.24**	**J**	0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1

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

Job ID: 410-104055-1

Client Sample ID: WL-15-S-03-04
Date Collected: 10/31/22 09:10
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-8
Matrix: Solid
Percent Solids: 96.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorodecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorotridecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorotetradecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorobutanesulfonic acid	<0.39		2.0	0.39	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorohexanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorooctanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
10:2 FTS	<0.59	cn	2.0	0.59	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluoropentanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluoroheptanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorononanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorodecanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorooctanesulfonamide	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorohexadecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorooctadecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorobutanoic acid	<0.78		2.0	0.78	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluoropentanoic acid	**0.21**	**J**	0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
NMeFOSE	<0.49		2.0	0.49	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
NMeFOSA	<0.49		2.0	0.49	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
NEtFOSE	<0.49		2.0	0.49	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
NEtFOSA	<0.49		2.0	0.49	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
HFPODA	<0.98		2.0	0.98	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
DONA	<0.20		2.9	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
11Cl-PF3OUdS	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluorododecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
4:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
Perfluoroundecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
6:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1
8:2 Fluorotelomer sulfonic acid	<0.59		2.9	0.59	ng/g	☼	11/22/22 09:33	11/23/22 14:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*102*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
M2-8:2 FTS	*98*		*15 - 200*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
M2-6:2 FTS	*101*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C5 PFHxA	*96*		*10 - 174*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C4 PFHpA	*103*		*10 - 178*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C8 PFOA	*99*		*26 - 159*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C9 PFNA	*106*		*26 - 165*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C6 PFDA	*99*		*26 - 161*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C7 PFUnA	*101*		*12 - 173*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C2-PFDoDA	*109*		*11 - 166*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C3 PFBS	*108*		*27 - 179*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C3 PFHxS	*113*		*24 - 171*	*11/22/22 09:33*	*11/23/22 14:45*	*1*
13C8 PFOS	*113*		*41 - 154*	*11/22/22 09:33*	*11/23/22 14:45*	*1*

Client Sample ID: WL-15-S-03-04

Lab Sample ID: 410-104055-8

Date Collected: 10/31/22 09:10
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 96.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	11		10 - 178	11/22/22 09:33	11/23/22 14:45	1
d5-NEtFOSAA	15		10 - 193	11/22/22 09:33	11/23/22 14:45	1
13C8 FOSA	113		14 - 163	11/22/22 09:33	11/23/22 14:45	1
13C4 PFBA	91		28 - 153	11/22/22 09:33	11/23/22 14:45	1
13C5 PFPeA	98		24 - 161	11/22/22 09:33	11/23/22 14:45	1
d7-N-MeFOSE-M	117		10 - 179	11/22/22 09:33	11/23/22 14:45	1
d3-NMePFOSA	107		10 - 175	11/22/22 09:33	11/23/22 14:45	1
d9-N-EtFOSE-M	122		10 - 185	11/22/22 09:33	11/23/22 14:45	1
d5-NEtPFOSA	108		10 - 180	11/22/22 09:33	11/23/22 14:45	1
13C3 HFPO-DA	104		10 - 169	11/22/22 09:33	11/23/22 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.4		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: WL-16-S-00-01

Lab Sample ID: 410-104055-9

Date Collected: 10/31/22 09:30
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 96.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	0.39	J	0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluoroheptanoic acid	0.26	J	0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorooctanoic acid	0.48	J	0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorononanoic acid	0.60		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorodecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorotridecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorotetradecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorobutanesulfonic acid	<0.39		2.0	0.39	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorohexanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorooctanesulfonic acid	0.93		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
10:2 FTS	<0.59	cn	2.0	0.59	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluoropentanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluoroheptanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorononanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorodecanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorooctanesulfonamide	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorohexadecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorooctadecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorobutanoic acid	<0.78		2.0	0.78	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluoropentanoic acid	0.64		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
NMeFOSE	<0.49		2.0	0.49	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
NMeFOSA	<0.49		2.0	0.49	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
NEtFOSE	<0.49		2.0	0.49	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
NEtFOSA	<0.49		2.0	0.49	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
HFPODA	<0.98		2.0	0.98	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1

Client Sample ID: WL-16-S-00-01

Lab Sample ID: 410-104055-9

Date Collected: 10/31/22 09:30
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 96.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	<0.20		2.9	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
11Cl-PF3OUdS	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluorododecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
4:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
Perfluoroundecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
6:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1
8:2 Fluorotelomer sulfonic acid	<0.59		2.9	0.59	ng/g	☼	11/06/22 11:28	11/10/22 06:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*69*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
M2-8:2 FTS	*74*		*15 - 200*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
M2-6:2 FTS	*73*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C5 PFHxA	*72*		*10 - 174*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C4 PFHpA	*74*		*10 - 178*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C8 PFOA	*72*		*26 - 159*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C9 PFNA	*79*		*26 - 165*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C6 PFDA	*70*		*26 - 161*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C7 PFUnA	*79*		*12 - 173*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C2-PFDoDA	*73*		*11 - 166*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C2 PFTeDA	*76*		*10 - 169*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C3 PFBS	*71*		*27 - 179*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C3 PFHxS	*71*		*24 - 171*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C8 PFOS	*79*		*41 - 154*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
d3-NMeFOSAA	*29*		*10 - 178*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
d5-NEtFOSAA	*31*		*10 - 193*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C8 FOSA	*71*		*14 - 163*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C4 PFBA	*73*		*28 - 153*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C5 PFPeA	*76*		*24 - 161*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
d7-N-MeFOSE-M	*75*		*10 - 179*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
d3-NMePFOSA	*61*		*10 - 175*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
d9-N-EtFOSE-M	*72*		*10 - 185*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
d5-NEtPFOSA	*63*		*10 - 180*	*11/06/22 11:28*	*11/10/22 06:47*	*1*
13C3 HFPO-DA	*65*		*10 - 169*	*11/06/22 11:28*	*11/10/22 06:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.6**		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: WL-16-S-01-02

Lab Sample ID: 410-104055-10

Date Collected: 10/31/22 09:35
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 90.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.2**		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluoroheptanoic acid	**1.0**		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorooctanoic acid	**1.5**		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorononanoic acid	**0.36**	**J**	0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorodecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1

Client Sample ID: WL-16-S-01-02
Date Collected: 10/31/22 09:35
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-10
Matrix: Solid
Percent Solids: 90.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorooctanesulfonic acid	**3.4**		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
10:2 FTS	<0.64	cn	2.1	0.64	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorobutanoic acid	**1.0**	**J**	2.1	0.85	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluoropentanoic acid	**1.7**		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
DONA	<0.21		3.2	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
6:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1
8:2 Fluorotelomer sulfonic acid	<0.64		3.2	0.64	ng/g	☼	11/22/22 09:33	11/23/22 14:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
M2-8:2 FTS	*95*		*15 - 200*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
M2-6:2 FTS	*87*		*10 - 200*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C5 PFHxA	*91*		*10 - 174*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C4 PFHpA	*100*		*10 - 178*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C8 PFOA	*91*		*26 - 159*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C9 PFNA	*110*		*26 - 165*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C6 PFDA	*99*		*26 - 161*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C7 PFUnA	*101*		*12 - 173*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C2-PFDoDA	*101*		*11 - 166*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C2 PFTeDA	*113*		*10 - 169*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C3 PFBS	*100*		*27 - 179*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C3 PFHxS	*101*		*24 - 171*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C8 PFOS	*116*		*41 - 154*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
d3-NMeFOSAA	*13*		*10 - 178*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
d5-NEtFOSAA	*18*		*10 - 193*	*11/22/22 09:33*	*11/23/22 14:56*	*1*
13C8 FOSA	*97*		*14 - 163*	*11/22/22 09:33*	*11/23/22 14:56*	*1*

Client Sample ID: WL-16-S-01-02

Lab Sample ID: 410-104055-10

Date Collected: 10/31/22 09:35
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 90.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	90		28 - 153	11/22/22 09:33	11/23/22 14:56	1
13C5 PFPeA	94		24 - 161	11/22/22 09:33	11/23/22 14:56	1
d7-N-MeFOSE-M	100		10 - 179	11/22/22 09:33	11/23/22 14:56	1
d3-NMePFOSA	89		10 - 175	11/22/22 09:33	11/23/22 14:56	1
d9-N-EtFOSE-M	104		10 - 185	11/22/22 09:33	11/23/22 14:56	1
d5-NEtPFOSA	93		10 - 180	11/22/22 09:33	11/23/22 14:56	1
13C3 HFPO-DA	82		10 - 169	11/22/22 09:33	11/23/22 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.1		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: WL-16-S-03-04

Lab Sample ID: 410-104055-11

Date Collected: 10/31/22 09:40
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 95.2

Method: EPA 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	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluoroheptanoic acid	0.26	J	0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorooctanoic acid	0.33	J	0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorobutanesulfonic acid	<0.39		1.9	0.39	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorooctanesulfonic acid	0.36	J	0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
10:2 FTS	<0.58	cn	1.9	0.58	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluorobutanoic acid	<0.78		1.9	0.78	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluoropentanoic acid	0.21	J	0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
NMeFOSE	<0.49		1.9	0.49	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
NMeFOSA	<0.49		1.9	0.49	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
NEtFOSE	<0.49		1.9	0.49	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
NEtFOSA	<0.49		1.9	0.49	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
HFPODA	<0.97		1.9	0.97	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
DONA	<0.19		2.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1

Client Sample ID: WL-16-S-03-04

Lab Sample ID: 410-104055-11

Date Collected: 10/31/22 09:40
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 95.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
Perfluoroundecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	11/22/22 09:33	11/23/22 15:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*94*		*10 - 200*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
M2-6:2 FTS	*101*		*10 - 200*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C5 PFHxA	*88*		*10 - 174*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C4 PFHpA	*95*		*10 - 178*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C8 PFOA	*89*		*26 - 159*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C9 PFNA	*97*		*26 - 165*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C6 PFDA	*103*		*26 - 161*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C7 PFUnA	*103*		*12 - 173*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C2-PFDoDA	*110*		*11 - 166*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C2 PFTeDA	*122*		*10 - 169*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C3 PFBS	*114*		*27 - 179*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C3 PFHxS	*114*		*24 - 171*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C8 PFOS	*118*		*41 - 154*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
d3-NMeFOSAA	*10*		*10 - 178*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C8 FOSA	*123*		*14 - 163*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C4 PFBA	*86*		*28 - 153*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C5 PFPeA	*91*		*24 - 161*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
d7-N-MeFOSE-M	*126*		*10 - 179*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
d9-N-EtFOSE-M	*131*		*10 - 185*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
d5-NEtPFOSA	*105*		*10 - 180*	*11/22/22 09:33*	*11/23/22 15:07*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*11/22/22 09:33*	*11/23/22 15:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.8**		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: WL-17-S-00-01

Lab Sample ID: 410-104055-12

Date Collected: 10/31/22 10:15
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 91.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.1**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluoroheptanoic acid	**1.0**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorooctanoic acid	**1.1**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorononanoic acid	**0.69**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1

Client Sample ID: WL-17-S-00-01
Date Collected: 10/31/22 10:15
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-12
Matrix: Solid
Percent Solids: 91.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	**19**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
10:2 FTS	<0.62	cn	2.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluoropentanoic acid	**1.2**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 06:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*69*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
M2-8:2 FTS	*80*		*15 - 200*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
M2-6:2 FTS	*75*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C5 PFHxA	*56*		*10 - 174*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C4 PFHpA	*61*		*10 - 178*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C8 PFOA	*59*		*26 - 159*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C9 PFNA	*72*		*26 - 165*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C6 PFDA	*65*		*26 - 161*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C7 PFUnA	*77*		*12 - 173*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C2-PFDoDA	*69*		*11 - 166*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C2 PFTeDA	*77*		*10 - 169*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C3 PFBS	*72*		*27 - 179*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C3 PFHxS	*77*		*24 - 171*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C8 PFOS	*81*		*41 - 154*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
d3-NMeFOSAA	*16*		*10 - 178*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
d5-NEtFOSAA	*24*		*10 - 193*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C8 FOSA	*62*		*14 - 163*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C4 PFBA	*57*		*28 - 153*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
13C5 PFPeA	*56*		*24 - 161*	*11/06/22 11:28*	*11/10/22 06:58*	*1*
d7-N-MeFOSE-M	*63*		*10 - 179*	*11/06/22 11:28*	*11/10/22 06:58*	*1*

Client Sample ID: WL-17-S-00-01

Lab Sample ID: 410-104055-12

Date Collected: 10/31/22 10:15
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 91.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	52		10 - 175	11/06/22 11:28	11/10/22 06:58	1
d9-N-EtFOSE-M	67		10 - 185	11/06/22 11:28	11/10/22 06:58	1
d5-NEtPFOSA	52		10 - 180	11/06/22 11:28	11/10/22 06:58	1
13C3 HFPO-DA	54		10 - 169	11/06/22 11:28	11/10/22 06:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.8		1.0	1.0	%			11/04/22 09:58	1

Client Sample ID: WL-17-S-01-02

Lab Sample ID: 410-104055-13

Date Collected: 10/31/22 10:20
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 92.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.0		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluoroheptanoic acid	1.6		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorooctanoic acid	1.2		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorononanoic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorodecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorotridecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorotetradecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorobutanesulfonic acid	<0.43		2.2	0.43	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorohexanesulfonic acid	0.80		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorooctanesulfonic acid	1.7		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
NEtFOSAA	<0.22		2.2	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
NMeFOSAA	<0.22		2.2	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
10:2 FTS	<0.65	cn	2.2	0.65	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluoropentanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluoroheptanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorononanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorodecanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22		2.2	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorooctanesulfonamide	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorohexadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorooctadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorobutanoic acid	<0.86		2.2	0.86	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluoropentanoic acid	1.0		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
NMeFOSE	<0.54		2.2	0.54	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
NMeFOSA	<0.54		2.2	0.54	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
NEtFOSE	<0.54		2.2	0.54	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
NEtFOSA	<0.54		2.2	0.54	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
HFPODA	<1.1		2.2	1.1	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
DONA	<0.22		3.2	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
9Cl-PF3ONS	<0.22		2.2	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
11Cl-PF3OUdS	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluorododecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
4:2 Fluorotelomer sulfonic acid	<0.65		2.2	0.65	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
Perfluoroundecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1

Client Sample ID: WL-17-S-01-02

Lab Sample ID: 410-104055-13
Date Collected: 10/31/22 10:20
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 92.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	<0.65		2.2	0.65	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1
8:2 Fluorotelomer sulfonic acid	<0.65		3.2	0.65	ng/g	☼	11/22/22 09:33	11/23/22 15:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*78*		*10 - 200*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
M2-8:2 FTS	*80*		*15 - 200*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
M2-6:2 FTS	*76*		*10 - 200*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C5 PFHxA	*60*		*10 - 174*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C4 PFHpA	*63*		*10 - 178*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C8 PFOA	*63*		*26 - 159*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C9 PFNA	*76*		*26 - 165*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C6 PFDA	*76*		*26 - 161*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C7 PFUnA	*82*		*12 - 173*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C2-PFDoDA	*88*		*11 - 166*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C2 PFTeDA	*97*		*10 - 169*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C3 PFBS	*99*		*27 - 179*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C3 PFHxS	*99*		*24 - 171*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C8 PFOS	*106*		*41 - 154*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
d3-NMeFOSAA	*3*	**5-*	*10 - 178*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 193*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C8 FOSA	*90*		*14 - 163*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C4 PFBA	*54*		*28 - 153*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C5 PFPeA	*58*		*24 - 161*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
d7-N-MeFOSE-M	*107*		*10 - 179*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
d9-N-EtFOSE-M	*105*		*10 - 185*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
d5-NEtPFOSA	*83*		*10 - 180*	*11/22/22 09:33*	*11/23/22 15:18*	*1*
13C3 HFPO-DA	*66*		*10 - 169*	*11/22/22 09:33*	*11/23/22 15:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.1**		1.0	1.0	%			11/04/22 09:58	1

Client Sample ID: WL-17-S-01-02 DUP

Lab Sample ID: 410-104055-14
Date Collected: 10/31/22 10:20
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 92.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.98**		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluoroheptanoic acid	**1.9**		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorooctanoic acid	**1.0**		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorohexanesulfonic acid	**0.90**		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorooctanesulfonic acid	**1.9**		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1

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

Job ID: 410-104055-1

Client Sample ID: WL-17-S-01-02 DUP
Date Collected: 10/31/22 10:20
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-14
Matrix: Solid
Percent Solids: 92.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	<0.60	cn	2.0	0.60	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorobutanoic acid	<0.79		2.0	0.79	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluoropentanoic acid	**1.1**		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
HFPODA	<0.99		2.0	0.99	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
DONA	<0.20		3.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g	☼	11/22/22 09:33	11/23/22 15:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*89*		*10 - 200*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
M2-8:2 FTS	*98*		*15 - 200*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
M2-6:2 FTS	*93*		*10 - 200*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C5 PFHxA	*88*		*10 - 174*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C4 PFHpA	*88*		*10 - 178*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C8 PFOA	*89*		*26 - 159*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C9 PFNA	*103*		*26 - 165*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C6 PFDA	*98*		*26 - 161*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C7 PFUnA	*96*		*12 - 173*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C2-PFDoDA	*104*		*11 - 166*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C2 PFTeDA	*110*		*10 - 169*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C3 PFBS	*111*		*27 - 179*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C3 PFHxS	*112*		*24 - 171*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C8 PFOS	*126*		*41 - 154*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
d3-NMeFOSAA	*6*	**5-*	*10 - 178*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
d5-NEtFOSAA	*8*	**5-*	*10 - 193*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C8 FOSA	*122*		*14 - 163*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C4 PFBA	*82*		*28 - 153*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
13C5 PFPeA	*87*		*24 - 161*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
d7-N-MeFOSE-M	*126*		*10 - 179*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
d3-NMePFOSA	*113*		*10 - 175*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
d9-N-EtFOSE-M	*130*		*10 - 185*	*11/22/22 09:33*	*11/23/22 15:29*	*1*
d5-NEtPFOSA	*119*		*10 - 180*	*11/22/22 09:33*	*11/23/22 15:29*	*1*

Client Sample ID: WL-17-S-01-02 DUP

Lab Sample ID: 410-104055-14

Date Collected: 10/31/22 10:20
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 92.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	*103*		*10 - 169*	*11/22/22 09:33*	*11/23/22 15:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.6**		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: WL-17-S-03-04

Lab Sample ID: 410-104055-15

Date Collected: 10/31/22 10:25
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 96.0

Method: EPA 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	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluoroheptanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorooctanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorooctanesulfonic acid	**0.60**	**J**	0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluoropentanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	11/22/22 09:33	11/23/22 15:51	1

Client Sample ID: WL-17-S-03-04

Lab Sample ID: 410-104055-15

Date Collected: 10/31/22 10:25
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 96.0

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*94*		*10 - 200*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
M2-8:2 FTS	*97*		*15 - 200*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
M2-6:2 FTS	*87*		*10 - 200*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C5 PFHxA	*86*		*10 - 174*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C4 PFHpA	*95*		*10 - 178*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C8 PFOA	*93*		*26 - 159*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C9 PFNA	*111*		*26 - 165*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C6 PFDA	*103*		*26 - 161*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C7 PFUnA	*107*		*12 - 173*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C2-PFDoDA	*110*		*11 - 166*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C2 PFTeDA	*125*		*10 - 169*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C3 PFBS	*101*		*27 - 179*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C3 PFHxS	*101*		*24 - 171*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C8 PFOS	*115*		*41 - 154*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
d5-NEtFOSAA	*15*		*10 - 193*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C8 FOSA	*108*		*14 - 163*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C4 PFBA	*87*		*28 - 153*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C5 PFPeA	*92*		*24 - 161*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
d7-N-MeFOSE-M	*111*		*10 - 179*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
d3-NMePFOSA	*100*		*10 - 175*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
d9-N-EtFOSE-M	*110*		*10 - 185*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
d5-NEtPFOSA	*103*		*10 - 180*	*11/22/22 09:33*	*11/23/22 15:51*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*11/22/22 09:33*	*11/23/22 15:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.0**		1.0	1.0	%			11/04/22 09:58	1

Client Sample ID: WL-18-S-00-01

Lab Sample ID: 410-104055-16

Date Collected: 10/31/22 10:55
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 88.1

Method: EPA 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	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluoroheptanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorooctanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorononanoic acid	**0.30**	**J**	0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorodecanoic acid	**0.50**	**J I**	0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorooctanesulfonic acid	**0.74**		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
10:2 FTS	<0.62	cn	2.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1

Client Sample ID: WL-18-S-00-01
Date Collected: 10/31/22 10:55
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-16
Matrix: Solid
Percent Solids: 88.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluoropentanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
Perfluoroundecanoic acid	**0.42**	**J**	0.62	0.21	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	11/06/22 11:28	11/10/22 07:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*60*		*10 - 200*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
M2-8:2 FTS	*63*		*15 - 200*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
M2-6:2 FTS	*61*		*10 - 200*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C5 PFHxA	*55*		*10 - 174*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C4 PFHpA	*56*		*10 - 178*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C8 PFOA	*57*		*26 - 159*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C9 PFNA	*62*		*26 - 165*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C6 PFDA	*57*		*26 - 161*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C7 PFUnA	*66*		*12 - 173*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C2-PFDoDA	*61*		*11 - 166*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C2 PFTeDA	*69*		*10 - 169*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C3 PFBS	*71*		*27 - 179*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C3 PFHxS	*77*		*24 - 171*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C8 PFOS	*78*		*41 - 154*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
d3-NMeFOSAA	*3*	**5-*	*10 - 178*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 193*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C8 FOSA	*60*		*14 - 163*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C4 PFBA	*53*		*28 - 153*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C5 PFPeA	*51*		*24 - 161*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
d7-N-MeFOSE-M	*62*		*10 - 179*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
d3-NMePFOSA	*54*		*10 - 175*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
d9-N-EtFOSE-M	*65*		*10 - 185*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
d5-NEtPFOSA	*58*		*10 - 180*	*11/06/22 11:28*	*11/10/22 07:09*	*1*
13C3 HFPO-DA	*55*		*10 - 169*	*11/06/22 11:28*	*11/10/22 07:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.9**		1.0	1.0	%			11/04/22 09:58	1

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

Job ID: 410-104055-1

Client Sample ID: WL-18-S-01-02

Date Collected: 10/31/22 11:00
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-17

Matrix: Solid
Percent Solids: 87.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluoroheptanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorooctanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorononanoic acid	**0.35**	**J**	0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorodecanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorotridecanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorotetradecanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorobutanesulfonic acid	<0.46		2.3	0.46	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorohexanesulfonic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorooctanesulfonic acid	**1.3**		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
NEtFOSAA	<0.23		2.3	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
NMeFOSAA	<0.23		2.3	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
10:2 FTS	<0.69		2.3	0.69	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluoropentanesulfonic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluoroheptanesulfonic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorononanesulfonic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorodecanesulfonic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.23		2.3	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorooctanesulfonamide	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorohexadecanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorooctadecanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorobutanoic acid	<0.92		2.3	0.92	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluoropentanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
NMeFOSE	<0.57		2.3	0.57	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
NMeFOSA	<0.57		2.3	0.57	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
NEtFOSE	<0.57		2.3	0.57	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
NEtFOSA	<0.57		2.3	0.57	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
HFPODA	<1.1		2.3	1.1	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
DONA	<0.23		3.4	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
9Cl-PF3ONS	<0.23		2.3	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
11Cl-PF3OUdS	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluorododecanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
4:2 Fluorotelomer sulfonic acid	<0.69		2.3	0.69	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
Perfluoroundecanoic acid	<0.23		0.69	0.23	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
6:2 Fluorotelomer sulfonic acid	<0.69		2.3	0.69	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1
8:2 Fluorotelomer sulfonic acid	<0.69		3.4	0.69	ng/g	☼	11/22/22 09:33	11/23/22 16:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
M2-8:2 FTS	*92*		*15 - 200*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
M2-6:2 FTS	*89*		*10 - 200*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
13C5 PFHxA	*91*		*10 - 174*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
13C4 PFHpA	*103*		*10 - 178*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
13C8 PFOA	*94*		*26 - 159*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
13C9 PFNA	*111*		*26 - 165*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
13C6 PFDA	*111*		*26 - 161*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
13C7 PFUnA	*106*		*12 - 173*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*11/22/22 09:33*	*11/23/22 16:02*	*1*
13C2 PFTeDA	*129*		*10 - 169*	*11/22/22 09:33*	*11/23/22 16:02*	*1*

Client Sample ID: WL-18-S-01-02

Lab Sample ID: 410-104055-17
Date Collected: 10/31/22 11:00
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 87.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	101		27 - 179	11/22/22 09:33	11/23/22 16:02	1
13C3 PFHxS	115		24 - 171	11/22/22 09:33	11/23/22 16:02	1
13C8 PFOS	117		41 - 154	11/22/22 09:33	11/23/22 16:02	1
d3-NMeFOSAA	8	*5-	10 - 178	11/22/22 09:33	11/23/22 16:02	1
d5-NEtFOSAA	8	*5-	10 - 193	11/22/22 09:33	11/23/22 16:02	1
13C8 FOSA	107		14 - 163	11/22/22 09:33	11/23/22 16:02	1
13C4 PFBA	85		28 - 153	11/22/22 09:33	11/23/22 16:02	1
13C5 PFPeA	90		24 - 161	11/22/22 09:33	11/23/22 16:02	1
d7-N-MeFOSE-M	109		10 - 179	11/22/22 09:33	11/23/22 16:02	1
d3-NMePFOSA	89		10 - 175	11/22/22 09:33	11/23/22 16:02	1
d9-N-EtFOSE-M	115		10 - 185	11/22/22 09:33	11/23/22 16:02	1
d5-NEtPFOSA	93		10 - 180	11/22/22 09:33	11/23/22 16:02	1
13C3 HFPO-DA	97		10 - 169	11/22/22 09:33	11/23/22 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.8**		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: WL-18-S-03-04

Lab Sample ID: 410-104055-18
Date Collected: 10/31/22 11:05
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 95.8

Method: EPA 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	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluoroheptanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorooctanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorononanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorodecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorotridecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorotetradecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorobutanesulfonic acid	<0.39		2.0	0.39	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorohexanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorooctanesulfonic acid	**0.58**	**J**	0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
10:2 FTS	<0.59		2.0	0.59	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluoropentanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluoroheptanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorononanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorodecanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorooctanesulfonamide	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorohexadecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorooctadecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorobutanoic acid	<0.78		2.0	0.78	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluoropentanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
NMeFOSE	<0.49		2.0	0.49	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
NMeFOSA	<0.49		2.0	0.49	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1

Client Sample ID: WL-18-S-03-04

Date Collected: 10/31/22 11:05
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-18

Matrix: Solid
Percent Solids: 95.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.49		2.0	0.49	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
NEtFOSA	<0.49		2.0	0.49	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
HFPODA	<0.98		2.0	0.98	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
DONA	<0.20		2.9	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
11Cl-PF3OUdS	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluorododecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
4:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
Perfluoroundecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
6:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1
8:2 Fluorotelomer sulfonic acid	<0.59		2.9	0.59	ng/g	☼	11/22/22 09:33	11/23/22 16:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*		*10 - 200*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
M2-8:2 FTS	*94*		*15 - 200*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
M2-6:2 FTS	*86*		*10 - 200*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C5 PFHxA	*92*		*10 - 174*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C4 PFHpA	*96*		*10 - 178*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C8 PFOA	*91*		*26 - 159*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C9 PFNA	*103*		*26 - 165*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C6 PFDA	*96*		*26 - 161*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C7 PFUnA	*95*		*12 - 173*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C2-PFDoDA	*101*		*11 - 166*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C2 PFTeDA	*110*		*10 - 169*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C3 PFBS	*108*		*27 - 179*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C3 PFHxS	*106*		*24 - 171*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C8 PFOS	*110*		*41 - 154*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
d3-NMeFOSAA	*10*		*10 - 178*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
d5-NEtFOSAA	*11*		*10 - 193*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C8 FOSA	*118*		*14 - 163*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C4 PFBA	*92*		*28 - 153*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C5 PFPeA	*92*		*24 - 161*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
d7-N-MeFOSE-M	*125*		*10 - 179*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
d3-NMePFOSA	*108*		*10 - 175*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
d9-N-EtFOSE-M	*116*		*10 - 185*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
d5-NEtPFOSA	*108*		*10 - 180*	*11/22/22 09:33*	*11/23/22 16:13*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*11/22/22 09:33*	*11/23/22 16:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.2**		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: EB-103122-2

Date Collected: 10/31/22 11:30
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-19

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.79		1.8	0.79	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluoroheptanoic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorooctanoic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1

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

Job ID: 410-104055-1

Client Sample ID: EB-103122-2

Date Collected: 10/31/22 11:30
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-19

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorodecanoic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorotridecanoic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorotetradecanoic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorobutanesulfonic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorohexanesulfonic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorooctanesulfonic acid	<0.88		1.8	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1
NEtFOSAA	<0.44		2.6	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
NMeFOSAA	<0.53		1.8	0.53	ng/L		11/06/22 09:59	11/09/22 06:17	1
10:2 FTS	<0.88		4.4	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluoropentanesulfonic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluoroheptanesulfonic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorononanesulfonic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorodecanesulfonic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		2.6	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorooctanesulfonamide	<0.62		1.8	0.62	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorohexadecanoic acid	<0.88		2.6	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorooctadecanoic acid	<0.88		2.6	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorobutanoic acid	<1.8		4.4	1.8	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluoropentanoic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
NMeFOSE	<0.88		2.6	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1
NMeFOSA	<0.88		2.6	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1
NEtFOSE	<0.88		2.6	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1
NEtFOSA	<0.88		4.4	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1
HFPODA	<0.88		2.6	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1
DONA	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
9Cl-PF3ONS	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
11Cl-PF3OUdS	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluorododecanoic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
4:2 Fluorotelomer sulfonic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
Perfluoroundecanoic acid	<0.44		1.8	0.44	ng/L		11/06/22 09:59	11/09/22 06:17	1
6:2 Fluorotelomer sulfonic acid	<3.7		4.4	3.7	ng/L		11/06/22 09:59	11/09/22 06:17	1
8:2 Fluorotelomer sulfonic acid	<0.88		2.6	0.88	ng/L		11/06/22 09:59	11/09/22 06:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*127*		*10 - 200*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
M2-8:2 FTS	*119*		*33 - 200*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
M2-6:2 FTS	*126*		*17 - 200*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C5 PFHxA	*116*		*24 - 179*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C4 PFHpA	*117*		*31 - 182*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C8 PFOA	*109*		*48 - 162*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C9 PFNA	*116*		*51 - 167*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C6 PFDA	*103*		*49 - 163*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C7 PFUnA	*103*		*34 - 174*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C2-PFDoDA	*99*		*17 - 176*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C2 PFTeDA	*102*		*10 - 179*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C3 PFBS	*107*		*16 - 200*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C3 PFHxS	*111*		*28 - 188*	*11/06/22 09:59*	*11/09/22 06:17*	*1*
13C8 PFOS	*116*		*51 - 159*	*11/06/22 09:59*	*11/09/22 06:17*	*1*

Client Sample ID: EB-103122-2

Lab Sample ID: 410-104055-19

Date Collected: 10/31/22 11:30

Matrix: Water

Date Received: 11/02/22 10:00

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	113		31 - 174	11/06/22 09:59	11/09/22 06:17	1
d5-NEtFOSAA	110		29 - 195	11/06/22 09:59	11/09/22 06:17	1
13C8 FOSA	87		10 - 168	11/06/22 09:59	11/09/22 06:17	1
13C4 PFBA	113		42 - 165	11/06/22 09:59	11/09/22 06:17	1
13C5 PFPeA	115		38 - 187	11/06/22 09:59	11/09/22 06:17	1
d7-N-MeFOSE-M	86		10 - 178	11/06/22 09:59	11/09/22 06:17	1
d3-NMePFOSA	80		10 - 155	11/06/22 09:59	11/09/22 06:17	1
d9-N-EtFOSE-M	85		10 - 177	11/06/22 09:59	11/09/22 06:17	1
d5-NEtPFOSA	89		10 - 159	11/06/22 09:59	11/09/22 06:17	1
13C3 HFPO-DA	120		17 - 185	11/06/22 09:59	11/09/22 06:17	1

Client Sample ID: WL-19-S-00-01

Lab Sample ID: 410-104055-20

Date Collected: 10/31/22 11:40

Matrix: Solid

Date Received: 11/02/22 10:00

Percent Solids: 92.2

Method: EPA 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	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorooctanoic acid	**0.36**	**J**	0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorononanoic acid	**0.27**	**J**	0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorooctanesulfonic acid	**0.85**		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
10:2 FTS	<0.60	cn	2.0	0.60	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
HFPODA	<1.0		2.0	1.0	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
DONA	<0.20		3.0	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1

Client Sample ID: WL-19-S-00-01

Date Collected: 10/31/22 11:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-20

Matrix: Solid
Percent Solids: 92.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
Perfluoroundecanoic acid	**0.21**	**J**	0.60	0.20	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g	☼	11/06/22 11:28	11/10/22 07:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*70*		*10 - 200*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
M2-8:2 FTS	*90*		*15 - 200*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
M2-6:2 FTS	*79*		*10 - 200*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C5 PFHxA	*63*		*10 - 174*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C4 PFHpA	*69*		*10 - 178*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C8 PFOA	*69*		*26 - 159*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C9 PFNA	*79*		*26 - 165*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C6 PFDA	*73*		*26 - 161*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C7 PFUnA	*88*		*12 - 173*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C2-PFDoDA	*85*		*11 - 166*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C3 PFBS	*74*		*27 - 179*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C3 PFHxS	*78*		*24 - 171*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C8 PFOS	*85*		*41 - 154*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
d3-NMeFOSAA	*28*		*10 - 178*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
d5-NEtFOSAA	*35*		*10 - 193*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C8 FOSA	*65*		*14 - 163*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C4 PFBA	*57*		*28 - 153*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C5 PFPeA	*59*		*24 - 161*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
d7-N-MeFOSE-M	*72*		*10 - 179*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
d3-NMePFOSA	*45*		*10 - 175*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
d9-N-EtFOSE-M	*71*		*10 - 185*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
d5-NEtPFOSA	*47*		*10 - 180*	*11/06/22 11:28*	*11/10/22 07:31*	*1*
13C3 HFPO-DA	*55*		*10 - 169*	*11/06/22 11:28*	*11/10/22 07:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.8**		1.0	1.0	%			11/04/22 07:47	1

Client Sample ID: EB-103122-3

Date Collected: 10/31/22 13:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-27

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.78		1.7	0.78	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluoroheptanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorooctanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorononanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorodecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorotridecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorotetradecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorobutanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorohexanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorooctanesulfonic acid	<0.87		1.7	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1

Client Sample ID: EB-103122-3
Date Collected: 10/31/22 13:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-27
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.43		2.6	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		11/06/22 09:59	11/09/22 06:28	1
10:2 FTS	<0.87		4.3	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluoropentanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluoroheptanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorononanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorodecanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		2.6	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorooctanesulfonamide	<0.61		1.7	0.61	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorohexadecanoic acid	<0.87		2.6	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorooctadecanoic acid	<0.87		2.6	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorobutanoic acid	<1.7		4.3	1.7	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluoropentanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
NMeFOSE	<0.87		2.6	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1
NMeFOSA	<0.87		2.6	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1
NEtFOSE	<0.87		2.6	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1
NEtFOSA	<0.87		4.3	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1
HFPODA	<0.87		2.6	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1
DONA	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
9Cl-PF3ONS	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
11Cl-PF3OUdS	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluorododecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
4:2 Fluorotelomer sulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
Perfluoroundecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:28	1
6:2 Fluorotelomer sulfonic acid	<3.7		4.3	3.7	ng/L		11/06/22 09:59	11/09/22 06:28	1
8:2 Fluorotelomer sulfonic acid	<0.87		2.6	0.87	ng/L		11/06/22 09:59	11/09/22 06:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*101*		*10 - 200*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
M2-8:2 FTS	*95*		*33 - 200*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
M2-6:2 FTS	*91*		*17 - 200*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C5 PFHxA	*90*		*24 - 179*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C4 PFHpA	*88*		*31 - 182*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C8 PFOA	*85*		*48 - 162*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C9 PFNA	*86*		*51 - 167*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C6 PFDA	*80*		*49 - 163*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C7 PFUnA	*82*		*34 - 174*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C2-PFDoDA	*82*		*17 - 176*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C2 PFTeDA	*81*		*10 - 179*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C3 PFBS	*86*		*16 - 200*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C3 PFHxS	*88*		*28 - 188*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C8 PFOS	*87*		*51 - 159*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
d3-NMeFOSAA	*91*		*31 - 174*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
d5-NEtFOSAA	*92*		*29 - 195*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C8 FOSA	*70*		*10 - 168*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C4 PFBA	*92*		*42 - 165*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
13C5 PFPeA	*91*		*38 - 187*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
d7-N-MeFOSE-M	*75*		*10 - 178*	*11/06/22 09:59*	*11/09/22 06:28*	*1*
d3-NMePFOSA	*62*		*10 - 155*	*11/06/22 09:59*	*11/09/22 06:28*	*1*

Client Sample ID: EB-103122-3

Date Collected: 10/31/22 13:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-27
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	75		10 - 177	11/06/22 09:59	11/09/22 06:28	1
d5-NEtPFOSA	65		10 - 159	11/06/22 09:59	11/09/22 06:28	1
13C3 HFPO-DA	80		17 - 185	11/06/22 09:59	11/09/22 06:28	1

Client Sample ID: EB-103122-4

Date Collected: 10/31/22 13:50
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-28
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.77		1.7	0.77	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluoroheptanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorooctanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorononanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorodecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorotridecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorotetradecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorobutanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorohexanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorooctanesulfonic acid	<0.86		1.7	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1
NEtFOSAA	<0.43		2.6	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		11/06/22 09:59	11/09/22 06:50	1
10:2 FTS	<0.86		4.3	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluoropentanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluoroheptanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorononanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorodecanesulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		2.6	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorooctanesulfonamide	<0.60		1.7	0.60	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorohexadecanoic acid	<0.86		2.6	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorooctadecanoic acid	<0.86		2.6	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorobutanoic acid	<1.7		4.3	1.7	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluoropentanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
NMeFOSE	<0.86		2.6	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1
NMeFOSA	<0.86		2.6	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1
NEtFOSE	<0.86		2.6	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1
NEtFOSA	<0.86		4.3	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1
HFPODA	<0.86		2.6	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1
DONA	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
9Cl-PF3ONS	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
11Cl-PF3OUdS	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluorododecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
4:2 Fluorotelomer sulfonic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
Perfluoroundecanoic acid	<0.43		1.7	0.43	ng/L		11/06/22 09:59	11/09/22 06:50	1
6:2 Fluorotelomer sulfonic acid	<3.6		4.3	3.6	ng/L		11/06/22 09:59	11/09/22 06:50	1
8:2 Fluorotelomer sulfonic acid	<0.86		2.6	0.86	ng/L		11/06/22 09:59	11/09/22 06:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	94		10 - 200	11/06/22 09:59	11/09/22 06:50	1
M2-8:2 FTS	85		33 - 200	11/06/22 09:59	11/09/22 06:50	1

Client Sample ID: EB-103122-4

Lab Sample ID: 410-104055-28

Date Collected: 10/31/22 13:50

Matrix: Water

Date Received: 11/02/22 10:00

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	92		17 - 200	11/06/22 09:59	11/09/22 06:50	1
13C5 PFHxA	90		24 - 179	11/06/22 09:59	11/09/22 06:50	1
13C4 PFHpA	83		31 - 182	11/06/22 09:59	11/09/22 06:50	1
13C8 PFOA	79		48 - 162	11/06/22 09:59	11/09/22 06:50	1
13C9 PFNA	87		51 - 167	11/06/22 09:59	11/09/22 06:50	1
13C6 PFDA	77		49 - 163	11/06/22 09:59	11/09/22 06:50	1
13C7 PFUnA	83		34 - 174	11/06/22 09:59	11/09/22 06:50	1
13C2-PFDoDA	74		17 - 176	11/06/22 09:59	11/09/22 06:50	1
13C2 PFTeDA	80		10 - 179	11/06/22 09:59	11/09/22 06:50	1
13C3 PFBS	85		16 - 200	11/06/22 09:59	11/09/22 06:50	1
13C3 PFHxS	85		28 - 188	11/06/22 09:59	11/09/22 06:50	1
13C8 PFOS	83		51 - 159	11/06/22 09:59	11/09/22 06:50	1
d3-NMeFOSAA	82		31 - 174	11/06/22 09:59	11/09/22 06:50	1
d5-NEtFOSAA	82		29 - 195	11/06/22 09:59	11/09/22 06:50	1
13C8 FOSA	74		10 - 168	11/06/22 09:59	11/09/22 06:50	1
13C4 PFBA	88		42 - 165	11/06/22 09:59	11/09/22 06:50	1
13C5 PFPeA	87		38 - 187	11/06/22 09:59	11/09/22 06:50	1
d7-N-MeFOSE-M	66		10 - 178	11/06/22 09:59	11/09/22 06:50	1
d3-NMePFOSA	59		10 - 155	11/06/22 09:59	11/09/22 06:50	1
d9-N-EtFOSE-M	70		10 - 177	11/06/22 09:59	11/09/22 06:50	1
d5-NEtPFOSA	60		10 - 159	11/06/22 09:59	11/09/22 06:50	1
13C3 HFPO-DA	80		17 - 185	11/06/22 09:59	11/09/22 06:50	1

Client Sample ID: SL-08-S-00-01

Lab Sample ID: 410-104055-29

Date Collected: 10/31/22 14:10

Matrix: Solid

Date Received: 11/02/22 10:00

Percent Solids: 91.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.39**	**J**	0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluoroheptanoic acid	**0.29**	**J**	0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorooctanoic acid	**0.48**	**J**	0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorononanoic acid	**0.35**	**J**	0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorodecanoic acid	**0.34**	**J**	0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorotridecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorotetradecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorohexanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorooctanesulfonic acid	**1.8**		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
10:2 FTS	<0.59		2.0	0.59	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluoropentanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluoroheptanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorononanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorodecanesulfonic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorooctanesulfonamide	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorohexadecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1

Client Sample ID: SL-08-S-00-01
Date Collected: 10/31/22 14:10
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-29
Matrix: Solid
Percent Solids: 91.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctadecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorobutanoic acid	<0.79		2.0	0.79	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluoropentanoic acid	**0.97**		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
HFPODA	<0.99		2.0	0.99	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
DONA	<0.20		3.0	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
11Cl-PF3OUdS	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluorododecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
4:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
Perfluoroundecanoic acid	<0.20		0.59	0.20	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
6:2 Fluorotelomer sulfonic acid	<0.59		2.0	0.59	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1
8:2 Fluorotelomer sulfonic acid	<0.59		3.0	0.59	ng/g	☼	11/16/22 09:40	11/21/22 00:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*110*		*10 - 200*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
M2-8:2 FTS	*131*		*15 - 200*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
M2-6:2 FTS	*114*		*10 - 200*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C5 PFHxA	*93*		*10 - 174*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C4 PFHpA	*97*		*10 - 178*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C8 PFOA	*91*		*26 - 159*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C9 PFNA	*104*		*26 - 165*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C6 PFDA	*96*		*26 - 161*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C7 PFUnA	*96*		*12 - 173*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C2-PFDoDA	*88*		*11 - 166*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C2 PFTeDA	*90*		*10 - 169*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C3 PFBS	*99*		*27 - 179*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C3 PFHxS	*101*		*24 - 171*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C8 PFOS	*108*		*41 - 154*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
d3-NMeFOSAA	*46*		*10 - 178*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
d5-NEtFOSAA	*58*		*10 - 193*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C8 FOSA	*83*		*14 - 163*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C4 PFBA	*92*		*28 - 153*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C5 PFPeA	*91*		*24 - 161*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
d7-N-MeFOSE-M	*78*		*10 - 179*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
d3-NMePFOSA	*68*		*10 - 175*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
d9-N-EtFOSE-M	*81*		*10 - 185*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
d5-NEtPFOSA	*70*		*10 - 180*	*11/16/22 09:40*	*11/21/22 00:49*	*1*
13C3 HFPO-DA	*80*		*10 - 169*	*11/16/22 09:40*	*11/21/22 00:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.2**		1.0	1.0	%			11/04/22 07:47	1

Isotope Dilution Summary

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

Job ID: 410-104055-1

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 (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
410-104055-3	WL-14-S-00-01	74	99	83	70	75	72	84	73
410-104055-4	WL-14-S-01-02	90	120	97	83	90	92	105	100
410-104055-5	WL-14-S-03-04	93	100	101	85	91	87	99	90
410-104055-6	WL-15-S-00-01	71	120	82	62	65	64	74	64
410-104055-7	WL-15-S-01-02	93	114	101	91	93	91	103	94
410-104055-8	WL-15-S-03-04	102	98	101	96	103	99	106	99
410-104055-9	WL-16-S-00-01	69	74	73	72	74	72	79	70
410-104055-10	WL-16-S-01-02	88	95	87	91	100	91	110	99
410-104055-11	WL-16-S-03-04	94	99	101	88	95	89	97	103
410-104055-12	WL-17-S-00-01	69	80	75	56	61	59	72	65
410-104055-13	WL-17-S-01-02	78	80	76	60	63	63	76	76
410-104055-14	WL-17-S-01-02 DUP	89	98	93	88	88	89	103	98
410-104055-15	WL-17-S-03-04	94	97	87	86	95	93	111	103
410-104055-16	WL-18-S-00-01	60	63	61	55	56	57	62	57
410-104055-17	WL-18-S-01-02	93	92	89	91	103	94	111	111
410-104055-18	WL-18-S-03-04	90	94	86	92	96	91	103	96
410-104055-20	WL-19-S-00-01	70	90	79	63	69	69	79	73
410-104055-29	SL-08-S-00-01	110	131	114	93	97	91	104	96
LCS 410-314369/2-B	Lab Control Sample	71	67	75	70	76	74	82	77
LCS 410-318123/2-B	Lab Control Sample	97	94	94	82	84	81	97	85
LCS 410-320180/2-B	Lab Control Sample	104	109	112	113	117	115	121	119
MB 410-314369/1-B	Method Blank	72	72	77	75	77	75	85	78
MB 410-318123/1-B	Method Blank	90	92	88	77	83	75	91	80
MB 410-320180/1-B	Method Blank	114	108	108	121	124	119	127	115

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
410-104055-3	WL-14-S-00-01	86	79	78	74	73	82	32	47
410-104055-4	WL-14-S-01-02	105	103	102	112	112	116	16	24
410-104055-5	WL-14-S-03-04	90	103	104	104	110	116	16	21
410-104055-6	WL-15-S-00-01	69	66	68	78	75	82	34	44
410-104055-7	WL-15-S-01-02	104	99	111	100	103	108	25	34
410-104055-8	WL-15-S-03-04	101	109	115	108	113	113	11	15
410-104055-9	WL-16-S-00-01	79	73	76	71	71	79	29	31
410-104055-10	WL-16-S-01-02	101	101	113	100	101	116	13	18
410-104055-11	WL-16-S-03-04	103	110	122	114	114	118	10	13
410-104055-12	WL-17-S-00-01	77	69	77	72	77	81	16	24
410-104055-13	WL-17-S-01-02	82	88	97	99	99	106	3 *5-	5 *5-
410-104055-14	WL-17-S-01-02 DUP	96	104	110	111	112	126	6 *5-	8 *5-
410-104055-15	WL-17-S-03-04	107	110	125	101	101	115	12	15
410-104055-16	WL-18-S-00-01	66	61	69	71	77	78	3 *5-	5 *5-
410-104055-17	WL-18-S-01-02	106	107	129	101	115	117	8 *5-	8 *5-
410-104055-18	WL-18-S-03-04	95	101	110	108	106	110	10	11
410-104055-20	WL-19-S-00-01	88	85	86	74	78	85	28	35
410-104055-29	SL-08-S-00-01	96	88	90	99	101	108	46	58
LCS 410-314369/2-B	Lab Control Sample	81	79	84	82	78	85	75	71
LCS 410-318123/2-B	Lab Control Sample	91	90	92	92	86	99	82	80
LCS 410-320180/2-B	Lab Control Sample	110	126	138	114	114	124	113	111
MB 410-314369/1-B	Method Blank	86	78	81	75	75	83	74	75

Isotope Dilution Summary

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

Job ID: 410-104055-1

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 (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
MB 410-318123/1-B	Method Blank	80	78	84	86	84	92	69	70
MB 410-320180/1-B	Method Blank	118	125	139	116	123	128	108	109

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
410-104055-3	WL-14-S-00-01	69	70	70	67	50	68	54	64
410-104055-4	WL-14-S-01-02	111	79	85	107	89	111	93	89
410-104055-5	WL-14-S-03-04	98	80	86	101	90	99	95	85
410-104055-6	WL-15-S-00-01	57	60	59	57	42	58	44	54
410-104055-7	WL-15-S-01-02	110	89	92	107	103	108	107	95
410-104055-8	WL-15-S-03-04	113	91	98	117	107	122	108	104
410-104055-9	WL-16-S-00-01	71	73	76	75	61	72	63	65
410-104055-10	WL-16-S-01-02	97	90	94	100	89	104	93	82
410-104055-11	WL-16-S-03-04	123	86	91	126	101	131	105	96
410-104055-12	WL-17-S-00-01	62	57	56	63	52	67	52	54
410-104055-13	WL-17-S-01-02	90	54	58	107	83	105	83	66
410-104055-14	WL-17-S-01-02 DUP	122	82	87	126	113	130	119	103
410-104055-15	WL-17-S-03-04	108	87	92	111	100	110	103	89
410-104055-16	WL-18-S-00-01	60	53	51	62	54	65	58	55
410-104055-17	WL-18-S-01-02	107	85	90	109	89	115	93	97
410-104055-18	WL-18-S-03-04	118	92	92	125	108	116	108	96
410-104055-20	WL-19-S-00-01	65	57	59	72	45	71	47	55
410-104055-29	SL-08-S-00-01	83	92	91	78	68	81	70	80
LCS 410-314369/2-B	Lab Control Sample	67	73	78	66	54	68	55	65
LCS 410-318123/2-B	Lab Control Sample	75	84	87	74	58	78	58	78
LCS 410-320180/2-B	Lab Control Sample	107	115	120	113	83	114	85	119
MB 410-314369/1-B	Method Blank	66	75	80	70	50	71	56	70
MB 410-318123/1-B	Method Blank	66	76	78	66	53	69	57	68
MB 410-320180/1-B	Method Blank	111	110	113	120	87	126	88	123

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

Isotope Dilution Summary

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

Job ID: 410-104055-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (33-200)	M262FTS (17-200)	13C5PHA (24-179)	C4PFHA (31-182)	C8PFOA (48-162)	C9PFNA (51-167)	C6PFDA (49-163)
410-104055-1	FB-103122	110	91	93	90	90	87	95	85
410-104055-2	EB-103122	94	110	90	94	90	88	94	91
410-104055-19	EB-103122-2	127	119	126	116	117	109	116	103
410-104055-27	EB-103122-3	101	95	91	90	88	85	86	80
410-104055-28	EB-103122-4	94	85	92	90	83	79	87	77
LCS 410-314354/2-A	Lab Control Sample	104	101	96	88	86	86	89	84
MB 410-314354/1-A	Method Blank	97	114	100	95	95	87	88	75

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-104055-1	FB-103122	84	82	83	89	90	94	96	78
410-104055-2	EB-103122	93	92	114	84	86	98	99	92
410-104055-19	EB-103122-2	103	99	102	107	111	116	113	110
410-104055-27	EB-103122-3	82	82	81	86	88	87	91	92
410-104055-28	EB-103122-4	83	74	80	85	85	83	82	82
LCS 410-314354/2-A	Lab Control Sample	83	75	80	83	84	88	90	75
MB 410-314354/1-A	Method Blank	78	65	67	86	90	87	80	73

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
410-104055-1	FB-103122	71	93	85	72	61	69	70	104
410-104055-2	EB-103122	75	94	96	70	71	72	74	90
410-104055-19	EB-103122-2	87	113	115	86	80	85	89	120
410-104055-27	EB-103122-3	70	92	91	75	62	75	65	80
410-104055-28	EB-103122-4	74	88	87	66	59	70	60	80
LCS 410-314354/2-A	Lab Control Sample	69	92	85	75	60	72	64	87
MB 410-314354/1-A	Method Blank	64	94	89	59	49	55	50	87

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

Isotope Dilution Summary

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

Job ID: 410-104055-1

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 410-314354/1-A
Matrix: Water
Analysis Batch: 315250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.90		2.0	0.90	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluoroheptanoic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorooctanoic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorononanoic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorodecanoic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorotridecanoic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorotetradecanoic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorobutanesulfonic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorohexanesulfonic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorooctanesulfonic acid	<1.0		2.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
NEtFOSAA	<0.50		3.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
NMeFOSAA	<0.60		2.0	0.60	ng/L		11/06/22 09:59	11/09/22 03:20	1
10:2 FTS	<1.0		5.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluoropentanesulfonic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluoroheptanesulfonic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorononanesulfonic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorodecanesulfonic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorododecanesulfonic acid (PFDoS)	<0.50		3.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorooctanesulfonamide	<0.70		2.0	0.70	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorohexadecanoic acid	<1.0		3.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorooctadecanoic acid	<1.0		3.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorobutanoic acid	<2.0		5.0	2.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluoropentanoic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
NMeFOSE	<1.0		3.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
NMeFOSA	<1.0		3.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
NEtFOSE	<1.0		3.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
NEtFOSA	<1.0		5.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
HFPODA	<1.0		3.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1
DONA	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
9Cl-PF3ONS	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
11Cl-PF3OUdS	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluorododecanoic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
4:2 Fluorotelomer sulfonic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
Perfluoroundecanoic acid	<0.50		2.0	0.50	ng/L		11/06/22 09:59	11/09/22 03:20	1
6:2 Fluorotelomer sulfonic acid	<4.2		5.0	4.2	ng/L		11/06/22 09:59	11/09/22 03:20	1
8:2 Fluorotelomer sulfonic acid	<1.0		3.0	1.0	ng/L		11/06/22 09:59	11/09/22 03:20	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*97*		*10 - 200*	*11/06/22 09:59*	*11/09/22 03:20*	*1*
M2-8:2 FTS	*114*		*33 - 200*	*11/06/22 09:59*	*11/09/22 03:20*	*1*
M2-6:2 FTS	*100*		*17 - 200*	*11/06/22 09:59*	*11/09/22 03:20*	*1*
13C5 PFHxA	*95*		*24 - 179*	*11/06/22 09:59*	*11/09/22 03:20*	*1*
13C4 PFHpA	*95*		*31 - 182*	*11/06/22 09:59*	*11/09/22 03:20*	*1*
13C8 PFOA	*87*		*48 - 162*	*11/06/22 09:59*	*11/09/22 03:20*	*1*
13C9 PFNA	*88*		*51 - 167*	*11/06/22 09:59*	*11/09/22 03:20*	*1*
13C6 PFDA	*75*		*49 - 163*	*11/06/22 09:59*	*11/09/22 03:20*	*1*
13C7 PFUnA	*78*		*34 - 174*	*11/06/22 09:59*	*11/09/22 03:20*	*1*
13C2-PFDoDA	*65*		*17 - 176*	*11/06/22 09:59*	*11/09/22 03:20*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-314354/1-A
Matrix: Water
Analysis Batch: 315250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314354

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	67		10 - 179	11/06/22 09:59	11/09/22 03:20	1
13C3 PFBS	86		16 - 200	11/06/22 09:59	11/09/22 03:20	1
13C3 PFHxS	90		28 - 188	11/06/22 09:59	11/09/22 03:20	1
13C8 PFOS	87		51 - 159	11/06/22 09:59	11/09/22 03:20	1
d3-NMeFOSAA	80		31 - 174	11/06/22 09:59	11/09/22 03:20	1
d5-NEtFOSAA	73		29 - 195	11/06/22 09:59	11/09/22 03:20	1
13C8 FOSA	64		10 - 168	11/06/22 09:59	11/09/22 03:20	1
13C4 PFBA	94		42 - 165	11/06/22 09:59	11/09/22 03:20	1
13C5 PFPeA	89		38 - 187	11/06/22 09:59	11/09/22 03:20	1
d7-N-MeFOSE-M	59		10 - 178	11/06/22 09:59	11/09/22 03:20	1
d3-NMePFOSA	49		10 - 155	11/06/22 09:59	11/09/22 03:20	1
d9-N-EtFOSE-M	55		10 - 177	11/06/22 09:59	11/09/22 03:20	1
d5-NEtPFOSA	50		10 - 159	11/06/22 09:59	11/09/22 03:20	1
13C3 HFPO-DA	87		17 - 185	11/06/22 09:59	11/09/22 03:20	1

Lab Sample ID: LCS 410-314354/2-A
Matrix: Water
Analysis Batch: 315250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	28.6		ng/L		112	58 - 139
Perfluoroheptanoic acid	25.6	29.3		ng/L		115	59 - 145
Perfluorooctanoic acid	25.6	26.7		ng/L		104	51 - 145
Perfluorononanoic acid	25.6	29.6		ng/L		116	61 - 139
Perfluorodecanoic acid	25.6	29.1		ng/L		114	56 - 138
Perfluorotridecanoic acid	25.6	30.7		ng/L		120	58 - 146
Perfluorotetradecanoic acid	25.6	28.0		ng/L		109	62 - 139
Perfluorobutanesulfonic acid	22.7	26.5		ng/L		117	53 - 138
Perfluorohexanesulfonic acid	23.3	24.3		ng/L		104	58 - 134
Perfluorooctanesulfonic acid	23.7	25.2		ng/L		107	45 - 150
NEtFOSAA	25.6	30.2		ng/L		118	55 - 134
NMeFOSAA	25.6	27.1		ng/L		106	59 - 140
10:2 FTS	24.7	26.5		ng/L		107	50 - 146
Perfluoropentanesulfonic acid	24.0	28.4		ng/L		118	55 - 140
Perfluoroheptanesulfonic acid	24.4	25.6		ng/L		105	56 - 140
Perfluorononanesulfonic acid	24.6	24.0		ng/L		98	59 - 136
Perfluorodecanesulfonic acid	24.7	25.2		ng/L		102	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	23.0		ng/L		93	48 - 138
Perfluorooctanesulfonamide	25.6	28.2		ng/L		110	43 - 167
Perfluorohexadecanoic acid	25.6	24.0		ng/L		94	41 - 158
Perfluorooctadecanoic acid	25.6	24.8		ng/L		97	29 - 172
Perfluorobutanoic acid	25.6	25.4		ng/L		99	59 - 136
Perfluoropentanoic acid	25.6	29.5		ng/L		115	57 - 141
NMeFOSE	25.6	26.4		ng/L		103	55 - 144
NMeFOSA	25.6	27.7		ng/L		108	64 - 143
NEtFOSE	25.6	26.4		ng/L		103	60 - 136
NEtFOSA	25.6	27.2		ng/L		106	61 - 134
HFPODA	25.6	26.2		ng/L		103	50 - 135

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-314354/2-A
Matrix: Water
Analysis Batch: 315250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	24.2	27.9		ng/L		115	55 - 143
9Cl-PF3ONS	23.8	26.1		ng/L		110	59 - 135
11Cl-PF3OUdS	23.8	23.2		ng/L		98	53 - 139
Perfluorododecanoic acid	25.6	28.9		ng/L		113	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	24.1		ng/L		101	55 - 139
Perfluoroundecanoic acid	25.6	29.1		ng/L		114	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	26.8		ng/L		110	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	22.4		ng/L		91	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*104*		*10 - 200*
M2-8:2 FTS	*101*		*33 - 200*
M2-6:2 FTS	*96*		*17 - 200*
13C5 PFHxA	*88*		*24 - 179*
13C4 PFHpA	*86*		*31 - 182*
13C8 PFOA	*86*		*48 - 162*
13C9 PFNA	*89*		*51 - 167*
13C6 PFDA	*84*		*49 - 163*
13C7 PFUnA	*83*		*34 - 174*
13C2-PFDoDA	*75*		*17 - 176*
13C2 PFTeDA	*80*		*10 - 179*
13C3 PFBS	*83*		*16 - 200*
13C3 PFHxS	*84*		*28 - 188*
13C8 PFOS	*88*		*51 - 159*
d3-NMeFOSAA	*90*		*31 - 174*
d5-NEtFOSAA	*75*		*29 - 195*
13C8 FOSA	*69*		*10 - 168*
13C4 PFBA	*92*		*42 - 165*
13C5 PFPeA	*85*		*38 - 187*
d7-N-MeFOSE-M	*75*		*10 - 178*
d3-NMePFOSA	*60*		*10 - 155*
d9-N-EtFOSE-M	*72*		*10 - 177*
d5-NEtPFOSA	*64*		*10 - 159*
13C3 HFPO-DA	*87*		*17 - 185*

Lab Sample ID: MB 410-314369/1-B
Matrix: Solid
Analysis Batch: 315797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314369

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-314369/1-B
Matrix: Solid
Analysis Batch: 315797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314369

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/06/22 11:28	11/10/22 06:03	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/06/22 11:28	11/10/22 06:03	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/06/22 11:28	11/10/22 06:03	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/06/22 11:28	11/10/22 06:03	1
HFPODA	<1.0		2.0	1.0	ng/g		11/06/22 11:28	11/10/22 06:03	1
DONA	<0.20		3.0	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/06/22 11:28	11/10/22 06:03	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/06/22 11:28	11/10/22 06:03	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/06/22 11:28	11/10/22 06:03	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/06/22 11:28	11/10/22 06:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*72*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
M2-8:2 FTS	*72*		*15 - 200*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
M2-6:2 FTS	*77*		*10 - 200*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C5 PFHxA	*75*		*10 - 174*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C4 PFHpA	*77*		*10 - 178*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C8 PFOA	*75*		*26 - 159*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C9 PFNA	*85*		*26 - 165*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C6 PFDA	*78*		*26 - 161*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C7 PFUnA	*86*		*12 - 173*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C2-PFDoDA	*78*		*11 - 166*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C2 PFTeDA	*81*		*10 - 169*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C3 PFBS	*75*		*27 - 179*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C3 PFHxS	*75*		*24 - 171*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C8 PFOS	*83*		*41 - 154*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
d3-NMeFOSAA	*74*		*10 - 178*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
d5-NEtFOSAA	*75*		*10 - 193*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C8 FOSA	*66*		*14 - 163*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C4 PFBA	*75*		*28 - 153*	*11/06/22 11:28*	*11/10/22 06:03*	*1*
13C5 PFPeA	*80*		*24 - 161*	*11/06/22 11:28*	*11/10/22 06:03*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-314369/1-B
Matrix: Solid
Analysis Batch: 315797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314369

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	70		10 - 179	11/06/22 11:28	11/10/22 06:03	1
d3-NMePFOSA	50		10 - 175	11/06/22 11:28	11/10/22 06:03	1
d9-N-EtFOSE-M	71		10 - 185	11/06/22 11:28	11/10/22 06:03	1
d5-NEtPFOSA	56		10 - 180	11/06/22 11:28	11/10/22 06:03	1
13C3 HFPO-DA	70		10 - 169	11/06/22 11:28	11/10/22 06:03	1

Lab Sample ID: LCS 410-314369/2-B
Matrix: Solid
Analysis Batch: 315797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314369

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	23.4		ng/g		94	59 - 132
Perfluoroheptanoic acid	25.0	23.7		ng/g		95	59 - 137
Perfluorooctanoic acid	25.0	25.1		ng/g		100	59 - 131
Perfluorononanoic acid	25.0	24.3		ng/g		97	61 - 134
Perfluorodecanoic acid	25.0	24.5		ng/g		98	56 - 133
Perfluorotridecanoic acid	25.0	26.6		ng/g		106	53 - 143
Perfluorotetradecanoic acid	25.0	23.2		ng/g		93	62 - 134
Perfluorobutanesulfonic acid	22.1	21.7		ng/g		98	54 - 130
Perfluorohexanesulfonic acid	22.8	21.5		ng/g		94	59 - 129
Perfluorooctanesulfonic acid	23.1	21.1		ng/g		91	61 - 126
NEtFOSAA	25.0	25.5		ng/g		102	57 - 127
NMeFOSAA	25.0	23.0		ng/g		92	60 - 134
10:2 FTS	24.1	27.1		ng/g		112	46 - 143
Perfluoropentanesulfonic acid	23.5	22.7		ng/g		97	57 - 133
Perfluoroheptanesulfonic acid	23.8	22.3		ng/g		94	59 - 132
Perfluorononanesulfonic acid	24.0	22.4		ng/g		94	60 - 132
Perfluorodecanesulfonic acid	24.1	22.7		ng/g		94	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	23.2		ng/g		96	38 - 145
Perfluorooctanesulfonamide	25.0	24.6		ng/g		99	47 - 149
Perfluorohexadecanoic acid	25.0	22.8		ng/g		91	38 - 147
Perfluorooctadecanoic acid	25.0	26.6		ng/g		106	16 - 160
Perfluorobutanoic acid	25.0	20.6		ng/g		82	60 - 128
Perfluoropentanoic acid	25.0	23.5		ng/g		94	58 - 134
NMeFOSE	25.0	25.9		ng/g		103	60 - 130
NMeFOSA	25.0	24.4		ng/g		98	60 - 129
NEtFOSE	25.0	24.6		ng/g		98	60 - 126
NEtFOSA	25.0	23.9		ng/g		96	60 - 123
HFPODA	25.0	23.6		ng/g		95	49 - 135
DONA	23.6	21.0		ng/g		89	57 - 137
9Cl-PF3ONS	23.3	22.0		ng/g		95	62 - 130
11Cl-PF3OUdS	23.3	21.9		ng/g		94	55 - 135
Perfluorododecanoic acid	25.0	24.6		ng/g		98	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	23.2		ng/g		100	58 - 131
Perfluoroundecanoic acid	25.0	24.4		ng/g		98	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.7		ng/g		96	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	23.1		ng/g		96	55 - 133

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	71		10 - 200
M2-8:2 FTS	67		15 - 200
M2-6:2 FTS	75		10 - 200
13C5 PFHxA	70		10 - 174
13C4 PFHpA	76		10 - 178
13C8 PFOA	74		26 - 159
13C9 PFNA	82		26 - 165
13C6 PFDA	77		26 - 161
13C7 PFUnA	81		12 - 173
13C2-PFDoDA	79		11 - 166
13C2 PFTeDA	84		10 - 169
13C3 PFBS	82		27 - 179
13C3 PFHxS	78		24 - 171
13C8 PFOS	85		41 - 154
d3-NMeFOSAA	75		10 - 178
d5-NEtFOSAA	71		10 - 193
13C8 FOSA	67		14 - 163
13C4 PFBA	73		28 - 153
13C5 PFPeA	78		24 - 161
d7-N-MeFOSE-M	66		10 - 179
d3-NMePFOSA	54		10 - 175
d9-N-EtFOSE-M	68		10 - 185
d5-NEtPFOSA	55		10 - 180
13C3 HFPO-DA	65		10 - 169

Lab Sample ID: MB 410-318123/1-B
Matrix: Solid
Analysis Batch: 319424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-318123/1-B
Matrix: Solid
Analysis Batch: 319424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/16/22 09:40	11/20/22 23:53	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/16/22 09:40	11/20/22 23:53	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/16/22 09:40	11/20/22 23:53	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/16/22 09:40	11/20/22 23:53	1
HFPODA	<1.0		2.0	1.0	ng/g		11/16/22 09:40	11/20/22 23:53	1
DONA	<0.20		3.0	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/16/22 09:40	11/20/22 23:53	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 09:40	11/20/22 23:53	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/16/22 09:40	11/20/22 23:53	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/16/22 09:40	11/20/22 23:53	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*		*10 - 200*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
M2-8:2 FTS	*92*		*15 - 200*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C5 PFHxA	*77*		*10 - 174*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C4 PFHpA	*83*		*10 - 178*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C8 PFOA	*75*		*26 - 159*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C9 PFNA	*91*		*26 - 165*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C6 PFDA	*80*		*26 - 161*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C7 PFUnA	*80*		*12 - 173*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C2-PFDoDA	*78*		*11 - 166*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C3 PFBS	*86*		*27 - 179*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C3 PFHxS	*84*		*24 - 171*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C8 PFOS	*92*		*41 - 154*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
d3-NMeFOSAA	*69*		*10 - 178*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
d5-NEtFOSAA	*70*		*10 - 193*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C8 FOSA	*66*		*14 - 163*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C4 PFBA	*76*		*28 - 153*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C5 PFPeA	*78*		*24 - 161*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
d7-N-MeFOSE-M	*66*		*10 - 179*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
d3-NMePFOSA	*53*		*10 - 175*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
d9-N-EtFOSE-M	*69*		*10 - 185*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
d5-NEtPFOSA	*57*		*10 - 180*	*11/16/22 09:40*	*11/20/22 23:53*	*1*
13C3 HFPO-DA	*68*		*10 - 169*	*11/16/22 09:40*	*11/20/22 23:53*	*1*

Lab Sample ID: LCS 410-318123/2-B
Matrix: Solid
Analysis Batch: 319424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	25.7		ng/g		103	59 - 132
Perfluoroheptanoic acid	25.0	23.9		ng/g		96	59 - 137

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-318123/2-B
Matrix: Solid
Analysis Batch: 319424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	25.0	26.6		ng/g		106	59 - 131
Perfluorononanoic acid	25.0	25.4		ng/g		102	61 - 134
Perfluorodecanoic acid	25.0	28.9		ng/g		115	56 - 133
Perfluorotridecanoic acid	25.0	25.4		ng/g		101	53 - 143
Perfluorotetradecanoic acid	25.0	22.9		ng/g		92	62 - 134
Perfluorobutanesulfonic acid	22.1	21.8		ng/g		98	54 - 130
Perfluorohexanesulfonic acid	22.8	22.5		ng/g		99	59 - 129
Perfluorooctanesulfonic acid	23.1	22.2		ng/g		96	61 - 126
NEtFOSAA	25.0	26.5		ng/g		106	57 - 127
NMeFOSAA	25.0	24.4		ng/g		98	60 - 134
10:2 FTS	24.1	24.5		ng/g		102	46 - 143
Perfluoropentanesulfonic acid	23.5	23.9		ng/g		102	57 - 133
Perfluoroheptanesulfonic acid	23.8	23.5		ng/g		99	59 - 132
Perfluorononanesulfonic acid	24.0	24.3		ng/g		101	60 - 132
Perfluorodecanesulfonic acid	24.1	23.5		ng/g		97	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	23.8		ng/g		98	38 - 145
Perfluorooctanesulfonamide	25.0	25.9		ng/g		104	47 - 149
Perfluorohexadecanoic acid	25.0	22.0		ng/g		88	38 - 147
Perfluorooctadecanoic acid	25.0	24.7		ng/g		99	16 - 160
Perfluorobutanoic acid	25.0	23.2		ng/g		93	60 - 128
Perfluoropentanoic acid	25.0	23.4		ng/g		94	58 - 134
NMeFOSE	25.0	25.9		ng/g		104	60 - 130
NMeFOSA	25.0	24.5		ng/g		98	60 - 129
NEtFOSE	25.0	24.6		ng/g		98	60 - 126
NEtFOSA	25.0	25.2		ng/g		101	60 - 123
HFPODA	25.0	25.1		ng/g		100	49 - 135
DONA	23.6	25.0		ng/g		106	57 - 137
9Cl-PF3ONS	23.3	22.3		ng/g		96	62 - 130
11Cl-PF3OUdS	23.3	22.4		ng/g		96	55 - 135
Perfluorododecanoic acid	25.0	24.3		ng/g		97	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.8		ng/g		85	58 - 131
Perfluoroundecanoic acid	25.0	26.6		ng/g		106	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.1		ng/g		93	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	25.2		ng/g		105	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*97*		*10 - 200*
M2-8:2 FTS	*94*		*15 - 200*
M2-6:2 FTS	*94*		*10 - 200*
13C5 PFHxA	*82*		*10 - 174*
13C4 PFHpA	*84*		*10 - 178*
13C8 PFOA	*81*		*26 - 159*
13C9 PFNA	*97*		*26 - 165*
13C6 PFDA	*85*		*26 - 161*
13C7 PFUnA	*91*		*12 - 173*
13C2-PFDoDA	*90*		*11 - 166*
13C2 PFTeDA	*92*		*10 - 169*
13C3 PFBS	*92*		*27 - 179*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-318123/2-B
Matrix: Solid
Analysis Batch: 319424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318123

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 PFHxS	86		24 - 171
13C8 PFOS	99		41 - 154
d3-NMeFOSAA	82		10 - 178
d5-NEtFOSAA	80		10 - 193
13C8 FOSA	75		14 - 163
13C4 PFBA	84		28 - 153
13C5 PFPeA	87		24 - 161
d7-N-MeFOSE-M	74		10 - 179
d3-NMePFOSA	58		10 - 175
d9-N-EtFOSE-M	78		10 - 185
d5-NEtPFOSA	58		10 - 180
13C3 HFPO-DA	78		10 - 169

Lab Sample ID: MB 410-320180/1-B
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/22/22 09:33	11/23/22 13:27	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/22/22 09:33	11/23/22 13:27	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/22/22 09:33	11/23/22 13:27	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/22/22 09:33	11/23/22 13:27	1
HFPODA	<1.0		2.0	1.0	ng/g		11/22/22 09:33	11/23/22 13:27	1
DONA	<0.20		3.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-320180/1-B
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/22/22 09:33	11/23/22 13:27	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/22/22 09:33	11/23/22 13:27	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*114*		*10 - 200*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
M2-8:2 FTS	*108*		*15 - 200*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
M2-6:2 FTS	*108*		*10 - 200*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C5 PFHxA	*121*		*10 - 174*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C4 PFHpA	*124*		*10 - 178*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C8 PFOA	*119*		*26 - 159*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C9 PFNA	*127*		*26 - 165*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C6 PFDA	*115*		*26 - 161*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C7 PFUnA	*118*		*12 - 173*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C2-PFDoDA	*125*		*11 - 166*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C2 PFTeDA	*139*		*10 - 169*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C3 PFBS	*116*		*27 - 179*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C3 PFHxS	*123*		*24 - 171*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C8 PFOS	*128*		*41 - 154*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
d3-NMeFOSAA	*108*		*10 - 178*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
d5-NEtFOSAA	*109*		*10 - 193*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C8 FOSA	*111*		*14 - 163*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C4 PFBA	*110*		*28 - 153*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C5 PFPeA	*113*		*24 - 161*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
d7-N-MeFOSE-M	*120*		*10 - 179*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
d3-NMePFOSA	*87*		*10 - 175*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
d9-N-EtFOSE-M	*126*		*10 - 185*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
d5-NEtPFOSA	*88*		*10 - 180*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C3 HFPO-DA	*123*		*10 - 169*	*11/22/22 09:33*	*11/23/22 13:27*	*1*

Lab Sample ID: LCS 410-320180/2-B
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	21.9		ng/g		88	59 - 132
Perfluoroheptanoic acid	25.0	20.9		ng/g		84	59 - 137
Perfluorooctanoic acid	25.0	20.0		ng/g		80	59 - 131
Perfluorononanoic acid	25.0	21.5		ng/g		86	61 - 134
Perfluorodecanoic acid	25.0	21.6		ng/g		87	56 - 133
Perfluorotridecanoic acid	25.0	20.0		ng/g		80	53 - 143
Perfluorotetradecanoic acid	25.0	20.3		ng/g		81	62 - 134
Perfluorobutanesulfonic acid	22.1	20.2		ng/g		91	54 - 130
Perfluorohexanesulfonic acid	22.8	19.9		ng/g		87	59 - 129
Perfluorooctanesulfonic acid	23.1	19.4		ng/g		84	61 - 126
NEtFOSAA	25.0	21.4		ng/g		86	57 - 127

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320180/2-B
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.0	20.0		ng/g		80	60 - 134
10:2 FTS	24.1	20.0		ng/g		83	46 - 143
Perfluoropentanesulfonic acid	23.5	19.8		ng/g		84	57 - 133
Perfluoroheptanesulfonic acid	23.8	19.3		ng/g		81	59 - 132
Perfluorononanesulfonic acid	24.0	19.4		ng/g		81	60 - 132
Perfluorodecanesulfonic acid	24.1	19.1		ng/g		79	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	20.3		ng/g		84	38 - 145
Perfluorooctanesulfonamide	25.0	20.5		ng/g		82	47 - 149
Perfluorohexadecanoic acid	25.0	16.6		ng/g		67	38 - 147
Perfluorooctadecanoic acid	25.0	17.3		ng/g		69	16 - 160
Perfluorobutanoic acid	25.0	18.2		ng/g		73	60 - 128
Perfluoropentanoic acid	25.0	20.6		ng/g		82	58 - 134
NMeFOSE	25.0	19.3		ng/g		77	60 - 130
NMeFOSA	25.0	20.9		ng/g		84	60 - 129
NEtFOSE	25.0	19.3		ng/g		77	60 - 126
NEtFOSA	25.0	20.9		ng/g		84	60 - 123
HFPODA	25.0	20.4		ng/g		82	49 - 135
DONA	23.6	19.5		ng/g		83	57 - 137
9Cl-PF3ONS	23.3	19.5		ng/g		84	62 - 130
11Cl-PF3OUdS	23.3	20.9		ng/g		90	55 - 135
Perfluorododecanoic acid	25.0	20.2		ng/g		81	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.3		ng/g		83	58 - 131
Perfluoroundecanoic acid	25.0	22.1		ng/g		88	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	19.7		ng/g		83	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	18.6		ng/g		78	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*104*		*10 - 200*
M2-8:2 FTS	*109*		*15 - 200*
M2-6:2 FTS	*112*		*10 - 200*
13C5 PFHxA	*113*		*10 - 174*
13C4 PFHpA	*117*		*10 - 178*
13C8 PFOA	*115*		*26 - 159*
13C9 PFNA	*121*		*26 - 165*
13C6 PFDA	*119*		*26 - 161*
13C7 PFUnA	*110*		*12 - 173*
13C2-PFDoDA	*126*		*11 - 166*
13C2 PFTeDA	*138*		*10 - 169*
13C3 PFBS	*114*		*27 - 179*
13C3 PFHxS	*114*		*24 - 171*
13C8 PFOS	*124*		*41 - 154*
d3-NMeFOSAA	*113*		*10 - 178*
d5-NEtFOSAA	*111*		*10 - 193*
13C8 FOSA	*107*		*14 - 163*
13C4 PFBA	*115*		*28 - 153*
13C5 PFPeA	*120*		*24 - 161*
d7-N-MeFOSE-M	*113*		*10 - 179*
d3-NMePFOSA	*83*		*10 - 175*

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

Job ID: 410-104055-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320180/2-B
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320180

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	114		10 - 185
d5-NEtPFOSA	85		10 - 180
13C3 HFPO-DA	119		10 - 169

LCMS

Prep Batch: 314354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-1	FB-103122	Total/NA	Water	EPA 537 (mod)	
410-104055-2	EB-103122	Total/NA	Water	EPA 537 (mod)	
410-104055-19	EB-103122-2	Total/NA	Water	EPA 537 (mod)	
410-104055-27	EB-103122-3	Total/NA	Water	EPA 537 (mod)	
410-104055-28	EB-103122-4	Total/NA	Water	EPA 537 (mod)	
MB 410-314354/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-314354/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 314369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-3	WL-14-S-00-01	Total/NA	Solid	537 (mod)	
410-104055-6	WL-15-S-00-01	Total/NA	Solid	537 (mod)	
410-104055-9	WL-16-S-00-01	Total/NA	Solid	537 (mod)	
410-104055-12	WL-17-S-00-01	Total/NA	Solid	537 (mod)	
410-104055-16	WL-18-S-00-01	Total/NA	Solid	537 (mod)	
410-104055-20	WL-19-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-314369/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-314369/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 314370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-3	WL-14-S-00-01	Total/NA	Solid	Extract Aliquot	314369
410-104055-6	WL-15-S-00-01	Total/NA	Solid	Extract Aliquot	314369
410-104055-9	WL-16-S-00-01	Total/NA	Solid	Extract Aliquot	314369
410-104055-12	WL-17-S-00-01	Total/NA	Solid	Extract Aliquot	314369
410-104055-16	WL-18-S-00-01	Total/NA	Solid	Extract Aliquot	314369
410-104055-20	WL-19-S-00-01	Total/NA	Solid	Extract Aliquot	314369
MB 410-314369/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	314369
LCS 410-314369/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	314369

Analysis Batch: 315250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-1	FB-103122	Total/NA	Water	537 IDA	314354
410-104055-2	EB-103122	Total/NA	Water	537 IDA	314354
410-104055-19	EB-103122-2	Total/NA	Water	537 IDA	314354
410-104055-27	EB-103122-3	Total/NA	Water	537 IDA	314354
410-104055-28	EB-103122-4	Total/NA	Water	537 IDA	314354
MB 410-314354/1-A	Method Blank	Total/NA	Water	537 IDA	314354
LCS 410-314354/2-A	Lab Control Sample	Total/NA	Water	537 IDA	314354

Analysis Batch: 315797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-3	WL-14-S-00-01	Total/NA	Solid	537 IDA	314370
410-104055-6	WL-15-S-00-01	Total/NA	Solid	537 IDA	314370
410-104055-9	WL-16-S-00-01	Total/NA	Solid	537 IDA	314370
410-104055-12	WL-17-S-00-01	Total/NA	Solid	537 IDA	314370
410-104055-16	WL-18-S-00-01	Total/NA	Solid	537 IDA	314370
410-104055-20	WL-19-S-00-01	Total/NA	Solid	537 IDA	314370
MB 410-314369/1-B	Method Blank	Total/NA	Solid	537 IDA	314370
LCS 410-314369/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	314370

LCMS

Prep Batch: 318123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-16 - RE	WL-18-S-00-01	Total/NA	Solid	537 (mod)	
410-104055-29	SL-08-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-318123/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-318123/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 318180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-16 - RE	WL-18-S-00-01	Total/NA	Solid	Extract Aliquot	318123
410-104055-29	SL-08-S-00-01	Total/NA	Solid	Extract Aliquot	318123
MB 410-318123/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	318123
LCS 410-318123/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	318123

Analysis Batch: 319424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-16 - RE	WL-18-S-00-01	Total/NA	Solid	537 IDA	318180
410-104055-29	SL-08-S-00-01	Total/NA	Solid	537 IDA	318180
MB 410-318123/1-B	Method Blank	Total/NA	Solid	537 IDA	318180
LCS 410-318123/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	318180

Prep Batch: 320180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-4	WL-14-S-01-02	Total/NA	Solid	537 (mod)	
410-104055-5	WL-14-S-03-04	Total/NA	Solid	537 (mod)	
410-104055-7	WL-15-S-01-02	Total/NA	Solid	537 (mod)	
410-104055-8	WL-15-S-03-04	Total/NA	Solid	537 (mod)	
410-104055-10	WL-16-S-01-02	Total/NA	Solid	537 (mod)	
410-104055-11	WL-16-S-03-04	Total/NA	Solid	537 (mod)	
410-104055-13	WL-17-S-01-02	Total/NA	Solid	537 (mod)	
410-104055-14	WL-17-S-01-02 DUP	Total/NA	Solid	537 (mod)	
410-104055-15	WL-17-S-03-04	Total/NA	Solid	537 (mod)	
410-104055-17	WL-18-S-01-02	Total/NA	Solid	537 (mod)	
410-104055-18	WL-18-S-03-04	Total/NA	Solid	537 (mod)	
MB 410-320180/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-320180/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 320208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-4	WL-14-S-01-02	Total/NA	Solid	Extract Aliquot	320180
410-104055-5	WL-14-S-03-04	Total/NA	Solid	Extract Aliquot	320180
410-104055-7	WL-15-S-01-02	Total/NA	Solid	Extract Aliquot	320180
410-104055-8	WL-15-S-03-04	Total/NA	Solid	Extract Aliquot	320180
410-104055-10	WL-16-S-01-02	Total/NA	Solid	Extract Aliquot	320180
410-104055-11	WL-16-S-03-04	Total/NA	Solid	Extract Aliquot	320180
410-104055-13	WL-17-S-01-02	Total/NA	Solid	Extract Aliquot	320180
410-104055-14	WL-17-S-01-02 DUP	Total/NA	Solid	Extract Aliquot	320180
410-104055-15	WL-17-S-03-04	Total/NA	Solid	Extract Aliquot	320180
410-104055-17	WL-18-S-01-02	Total/NA	Solid	Extract Aliquot	320180
410-104055-18	WL-18-S-03-04	Total/NA	Solid	Extract Aliquot	320180
MB 410-320180/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	320180
LCS 410-320180/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	320180

LCMS

Analysis Batch: 320694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-4	WL-14-S-01-02	Total/NA	Solid	537 IDA	320208
410-104055-5	WL-14-S-03-04	Total/NA	Solid	537 IDA	320208
410-104055-7	WL-15-S-01-02	Total/NA	Solid	537 IDA	320208
410-104055-8	WL-15-S-03-04	Total/NA	Solid	537 IDA	320208
410-104055-10	WL-16-S-01-02	Total/NA	Solid	537 IDA	320208
410-104055-11	WL-16-S-03-04	Total/NA	Solid	537 IDA	320208
410-104055-13	WL-17-S-01-02	Total/NA	Solid	537 IDA	320208
410-104055-14	WL-17-S-01-02 DUP	Total/NA	Solid	537 IDA	320208
410-104055-15	WL-17-S-03-04	Total/NA	Solid	537 IDA	320208
410-104055-17	WL-18-S-01-02	Total/NA	Solid	537 IDA	320208
410-104055-18	WL-18-S-03-04	Total/NA	Solid	537 IDA	320208
MB 410-320180/1-B	Method Blank	Total/NA	Solid	537 IDA	320208
LCS 410-320180/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	320208

Prep Batch: 324753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-13 - RE	WL-17-S-01-02	Total/NA	Solid	537 (mod)	
410-104055-14 - RE	WL-17-S-01-02 DUP	Total/NA	Solid	537 (mod)	
410-104055-17 - RE	WL-18-S-01-02	Total/NA	Solid	537 (mod)	
MB 410-324753/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-324753/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 324824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-13 - RE	WL-17-S-01-02	Total/NA	Solid	Extract Aliquot	324753
410-104055-14 - RE	WL-17-S-01-02 DUP	Total/NA	Solid	Extract Aliquot	324753
410-104055-17 - RE	WL-18-S-01-02	Total/NA	Solid	Extract Aliquot	324753
MB 410-324753/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	324753
LCS 410-324753/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	324753

Analysis Batch: 325226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-13 - RE	WL-17-S-01-02	Total/NA	Solid	537 IDA	324824
410-104055-14 - RE	WL-17-S-01-02 DUP	Total/NA	Solid	537 IDA	324824
410-104055-17 - RE	WL-18-S-01-02	Total/NA	Solid	537 IDA	324824
LCS 410-324753/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	324824

Analysis Batch: 326411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-324753/1-B	Method Blank	Total/NA	Solid	537 IDA	324824

General Chemistry

Analysis Batch: 313878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-3	WL-14-S-00-01	Total/NA	Solid	Moisture	
410-104055-4	WL-14-S-01-02	Total/NA	Solid	Moisture	
410-104055-7	WL-15-S-01-02	Total/NA	Solid	Moisture	
410-104055-8	WL-15-S-03-04	Total/NA	Solid	Moisture	
410-104055-9	WL-16-S-00-01	Total/NA	Solid	Moisture	
410-104055-10	WL-16-S-01-02	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 313878 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-11	WL-16-S-03-04	Total/NA	Solid	Moisture	
410-104055-14	WL-17-S-01-02 DUP	Total/NA	Solid	Moisture	
410-104055-17	WL-18-S-01-02	Total/NA	Solid	Moisture	
410-104055-18	WL-18-S-03-04	Total/NA	Solid	Moisture	
410-104055-20	WL-19-S-00-01	Total/NA	Solid	Moisture	
410-104055-29	SL-08-S-00-01	Total/NA	Solid	Moisture	

Analysis Batch: 313985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104055-5	WL-14-S-03-04	Total/NA	Solid	Moisture	
410-104055-6	WL-15-S-00-01	Total/NA	Solid	Moisture	
410-104055-12	WL-17-S-00-01	Total/NA	Solid	Moisture	
410-104055-13	WL-17-S-01-02	Total/NA	Solid	Moisture	
410-104055-15	WL-17-S-03-04	Total/NA	Solid	Moisture	
410-104055-16	WL-18-S-00-01	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 410-104055-1

Client Sample ID: FB-103122
Date Collected: 10/31/22 08:10
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			314354	PR5J	ELLE	11/06/22 09:59
Total/NA	Analysis	537 IDA		1	315250	UUV6	ELLE	11/09/22 05:55

Client Sample ID: EB-103122
Date Collected: 10/31/22 08:20
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			314354	PR5J	ELLE	11/06/22 09:59
Total/NA	Analysis	537 IDA		1	315250	UUV6	ELLE	11/09/22 06:06

Client Sample ID: WL-14-S-00-01
Date Collected: 10/31/22 08:30
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-14-S-00-01
Date Collected: 10/31/22 08:30
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-3
Matrix: Solid
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			314369	PR5J	ELLE	11/06/22 11:28
Total/NA	Cleanup	Extract Aliquot			314370	PR5J	ELLE	11/06/22 12:06
Total/NA	Analysis	537 IDA		1	315797	VK3G	ELLE	11/10/22 06:25

Client Sample ID: WL-14-S-01-02
Date Collected: 10/31/22 08:35
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-14-S-01-02
Date Collected: 10/31/22 08:35
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-4
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 14:11

Lab Chronicle

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

Job ID: 410-104055-1

Client Sample ID: WL-14-S-03-04
Date Collected: 10/31/22 08:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313985	UWC1	ELLE	11/04/22 09:58

Client Sample ID: WL-14-S-03-04
Date Collected: 10/31/22 08:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-5
Matrix: Solid
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 14:22

Client Sample ID: WL-15-S-00-01
Date Collected: 10/31/22 09:00
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313985	UWC1	ELLE	11/04/22 09:58

Client Sample ID: WL-15-S-00-01
Date Collected: 10/31/22 09:00
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-6
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			314369	PR5J	ELLE	11/06/22 11:28
Total/NA	Cleanup	Extract Aliquot			314370	PR5J	ELLE	11/06/22 12:06
Total/NA	Analysis	537 IDA		1	315797	VK3G	ELLE	11/10/22 06:36

Client Sample ID: WL-15-S-01-02
Date Collected: 10/31/22 09:05
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-15-S-01-02
Date Collected: 10/31/22 09:05
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-7
Matrix: Solid
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 14:33

Lab Chronicle

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

Job ID: 410-104055-1

Client Sample ID: WL-15-S-03-04
Date Collected: 10/31/22 09:10
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-15-S-03-04
Date Collected: 10/31/22 09:10
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-8
Matrix: Solid
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 14:45

Client Sample ID: WL-16-S-00-01
Date Collected: 10/31/22 09:30
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-16-S-00-01
Date Collected: 10/31/22 09:30
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-9
Matrix: Solid
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			314369	PR5J	ELLE	11/06/22 11:28
Total/NA	Cleanup	Extract Aliquot			314370	PR5J	ELLE	11/06/22 12:06
Total/NA	Analysis	537 IDA		1	315797	VK3G	ELLE	11/10/22 06:47

Client Sample ID: WL-16-S-01-02
Date Collected: 10/31/22 09:35
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-16-S-01-02
Date Collected: 10/31/22 09:35
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-10
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 14:56

Client Sample ID: WL-16-S-03-04
Lab Sample ID: 410-104055-11
Date Collected: 10/31/22 09:40
Matrix: Solid
Date Received: 11/02/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-16-S-03-04
Lab Sample ID: 410-104055-11
Date Collected: 10/31/22 09:40
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 15:07

Client Sample ID: WL-17-S-00-01
Lab Sample ID: 410-104055-12
Date Collected: 10/31/22 10:15
Matrix: Solid
Date Received: 11/02/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313985	UWC1	ELLE	11/04/22 09:58

Client Sample ID: WL-17-S-00-01
Lab Sample ID: 410-104055-12
Date Collected: 10/31/22 10:15
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			314369	PR5J	ELLE	11/06/22 11:28
Total/NA	Cleanup	Extract Aliquot			314370	PR5J	ELLE	11/06/22 12:06
Total/NA	Analysis	537 IDA		1	315797	VK3G	ELLE	11/10/22 06:58

Client Sample ID: WL-17-S-01-02
Lab Sample ID: 410-104055-13
Date Collected: 10/31/22 10:20
Matrix: Solid
Date Received: 11/02/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313985	UWC1	ELLE	11/04/22 09:58

Client Sample ID: WL-17-S-01-02
Lab Sample ID: 410-104055-13
Date Collected: 10/31/22 10:20
Matrix: Solid
Date Received: 11/02/22 10:00
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 15:18
Total/NA	Prep	537 (mod)	RE		324753	K9VR	ELLE	12/07/22 16:26
Total/NA	Cleanup	Extract Aliquot	RE		324824	K9VR	ELLE	12/07/22 20:41
Total/NA	Analysis	537 IDA	RE	1	325226	PY4D	ELLE	12/09/22 04:27

Client Sample ID: WL-17-S-01-02 DUP
Date Collected: 10/31/22 10:20
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-17-S-01-02 DUP
Date Collected: 10/31/22 10:20
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-14
Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 15:29
Total/NA	Prep	537 (mod)	RE		324753	K9VR	ELLE	12/07/22 16:26
Total/NA	Cleanup	Extract Aliquot	RE		324824	K9VR	ELLE	12/07/22 20:41
Total/NA	Analysis	537 IDA	RE	1	325226	PY4D	ELLE	12/09/22 04:38

Client Sample ID: WL-17-S-03-04
Date Collected: 10/31/22 10:25
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313985	UWC1	ELLE	11/04/22 09:58

Client Sample ID: WL-17-S-03-04
Date Collected: 10/31/22 10:25
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-15
Matrix: Solid
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 15:51

Client Sample ID: WL-18-S-00-01
Date Collected: 10/31/22 10:55
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313985	UWC1	ELLE	11/04/22 09:58

Client Sample ID: WL-18-S-00-01
Date Collected: 10/31/22 10:55
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-16
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)	RE		318123	PR5J	ELLE	11/16/22 09:40
Total/NA	Cleanup	Extract Aliquot	RE		318180	PR5J	ELLE	11/16/22 10:30
Total/NA	Analysis	537 IDA	RE	1	319424	PY4D	ELLE	11/21/22 00:38

Lab Chronicle

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

Job ID: 410-104055-1

Client Sample ID: WL-18-S-00-01
Date Collected: 10/31/22 10:55
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-16
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			314369	PR5J	ELLE	11/06/22 11:28
Total/NA	Cleanup	Extract Aliquot			314370	PR5J	ELLE	11/06/22 12:06
Total/NA	Analysis	537 IDA		1	315797	VK3G	ELLE	11/10/22 07:09

Client Sample ID: WL-18-S-01-02
Date Collected: 10/31/22 11:00
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-18-S-01-02
Date Collected: 10/31/22 11:00
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-17
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 16:02
Total/NA	Prep	537 (mod)	RE		324753	K9VR	ELLE	12/07/22 16:26
Total/NA	Cleanup	Extract Aliquot	RE		324824	K9VR	ELLE	12/07/22 20:41
Total/NA	Analysis	537 IDA	RE	1	325226	PY4D	ELLE	12/09/22 04:50

Client Sample ID: WL-18-S-03-04
Date Collected: 10/31/22 11:05
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-18-S-03-04
Date Collected: 10/31/22 11:05
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-18
Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 16:13

Client Sample ID: EB-103122-2
Date Collected: 10/31/22 11:30
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			314354	PR5J	ELLE	11/06/22 09:59
Total/NA	Analysis	537 IDA		1	315250	UUV6	ELLE	11/09/22 06:17

Client Sample ID: WL-19-S-00-01
Date Collected: 10/31/22 11:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: WL-19-S-00-01
Date Collected: 10/31/22 11:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-20
Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			314369	PR5J	ELLE	11/06/22 11:28
Total/NA	Cleanup	Extract Aliquot			314370	PR5J	ELLE	11/06/22 12:06
Total/NA	Analysis	537 IDA		1	315797	VK3G	ELLE	11/10/22 07:31

Client Sample ID: EB-103122-3
Date Collected: 10/31/22 13:40
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			314354	PR5J	ELLE	11/06/22 09:59
Total/NA	Analysis	537 IDA		1	315250	UUV6	ELLE	11/09/22 06:28

Client Sample ID: EB-103122-4
Date Collected: 10/31/22 13:50
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			314354	PR5J	ELLE	11/06/22 09:59
Total/NA	Analysis	537 IDA		1	315250	UUV6	ELLE	11/09/22 06:50

Client Sample ID: SL-08-S-00-01
Date Collected: 10/31/22 14:10
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	313878	UWC1	ELLE	11/04/22 07:47

Client Sample ID: SL-08-S-00-01
Date Collected: 10/31/22 14:10
Date Received: 11/02/22 10:00

Lab Sample ID: 410-104055-29
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318123	PR5J	ELLE	11/16/22 09:40
Total/NA	Cleanup	Extract Aliquot			318180	PR5J	ELLE	11/16/22 10:30
Total/NA	Analysis	537 IDA		1	319424	PY4D	ELLE	11/21/22 00:49

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

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

Job ID: 410-104055-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	06-30-23

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
537 IDA	EPA 537 (mod)	Water	10:2 FTS
537 IDA	EPA 537 (mod)	Water	11Cl-PF3OUdS
537 IDA	EPA 537 (mod)	Water	4:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (mod)	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (mod)	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (mod)	Water	9Cl-PF3ONS
537 IDA	EPA 537 (mod)	Water	DONA
537 IDA	EPA 537 (mod)	Water	HFPODA
537 IDA	EPA 537 (mod)	Water	NEtFOSA

Accreditation/Certification Summary

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

Job ID: 410-104055-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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
537 IDA	EPA 537 (mod)	Water	NEtFOSAA
537 IDA	EPA 537 (mod)	Water	NEtFOSE
537 IDA	EPA 537 (mod)	Water	NMeFOSA
537 IDA	EPA 537 (mod)	Water	NMeFOSAA
537 IDA	EPA 537 (mod)	Water	NMeFOSE
537 IDA	EPA 537 (mod)	Water	Perfluorobutanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorobutanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorodecanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorodecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	EPA 537 (mod)	Water	Perfluorododecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluoroheptanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluoroheptanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorohexadecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorohexanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorohexanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorononanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorononanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorooctadecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorooctanesulfonamide
537 IDA	EPA 537 (mod)	Water	Perfluorooctanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorooctanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluoropentanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluoropentanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorotetradecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorotridecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluoroundecanoic acid
Moisture		Solid	Percent Moisture

Method Summary

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

Job ID: 410-104055-1

Method	Method Description	Protocol	Laboratory
537 IDA	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 Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

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

Job ID: 410-104055-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-104055-1	FB-103122	Water	10/31/22 08:10	11/02/22 10:00
410-104055-2	EB-103122	Water	10/31/22 08:20	11/02/22 10:00
410-104055-3	WL-14-S-00-01	Solid	10/31/22 08:30	11/02/22 10:00
410-104055-4	WL-14-S-01-02	Solid	10/31/22 08:35	11/02/22 10:00
410-104055-5	WL-14-S-03-04	Solid	10/31/22 08:40	11/02/22 10:00
410-104055-6	WL-15-S-00-01	Solid	10/31/22 09:00	11/02/22 10:00
410-104055-7	WL-15-S-01-02	Solid	10/31/22 09:05	11/02/22 10:00
410-104055-8	WL-15-S-03-04	Solid	10/31/22 09:10	11/02/22 10:00
410-104055-9	WL-16-S-00-01	Solid	10/31/22 09:30	11/02/22 10:00
410-104055-10	WL-16-S-01-02	Solid	10/31/22 09:35	11/02/22 10:00
410-104055-11	WL-16-S-03-04	Solid	10/31/22 09:40	11/02/22 10:00
410-104055-12	WL-17-S-00-01	Solid	10/31/22 10:15	11/02/22 10:00
410-104055-13	WL-17-S-01-02	Solid	10/31/22 10:20	11/02/22 10:00
410-104055-14	WL-17-S-01-02 DUP	Solid	10/31/22 10:20	11/02/22 10:00
410-104055-15	WL-17-S-03-04	Solid	10/31/22 10:25	11/02/22 10:00
410-104055-16	WL-18-S-00-01	Solid	10/31/22 10:55	11/02/22 10:00
410-104055-17	WL-18-S-01-02	Solid	10/31/22 11:00	11/02/22 10:00
410-104055-18	WL-18-S-03-04	Solid	10/31/22 11:05	11/02/22 10:00
410-104055-19	EB-103122-2	Water	10/31/22 11:30	11/02/22 10:00
410-104055-20	WL-19-S-00-01	Solid	10/31/22 11:40	11/02/22 10:00
410-104055-27	EB-103122-3	Water	10/31/22 13:40	11/02/22 10:00
410-104055-28	EB-103122-4	Water	10/31/22 13:50	11/02/22 10:00
410-104055-29	SL-08-S-00-01	Solid	10/31/22 14:10	11/02/22 10:00

nvironme

Chain of Custody Record

eurofins | Environment Testing America

Client Contact: Mr. Matthew Kenney	Sampler: M. KENNEY / W. TIFFT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68374-7540.1
Company: Weston Solutions, Inc.	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 1 of 3
Address: 43 North Main Street	PWSID:	Analysis Requested		Job #:
City: Concord	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, Y - Trizma, Z - other (specify)
State, Zip: NH, 03301	TAT Requested (days): STANDARD (*PLEASE SEE SAMPLE COMMENTS)			
Phone: 860 712 2684	Compliance Project: Δ Yes Δ No			
Email: Matthew.Kenney@WestonSolutions.com	PO #:			Other:
Project Name: Nantucket	WO #:			
Site: NANTUCKET	Project #: 41001960			
	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)	PFC_IDA - 36 PFAS	Moisture	Total Number of containers	Special Instructions/Note:
FB-103122	10/31/22	0810	G	W			X			W. TIFFT
EB-103122		0820		W			X			HAND AUGER
WL-14-S-00-01		0830		S			X	X		*5 DAY TAT
WL-14-S-01-02		0835					X	X		HOLD
WL-14-S-03-04		0840					X	X		HOLD
WL-15-S-00-01		0900					X	X		*5 DAY TAT
WL-15-S-01-02		0905					X	X		HOLD
WL-15-S-03-04		0910					X	X		HOLD
WL-16-S-00-01		0930					X	X		*5 DAY TAT
WL-16-S-01-02		0935					X	X		HOLD
WL-16-S-03-04		0940					X	X		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: Edwin Hernandez	Date/Time: 10/25/22 1530	Company	Received by:	Date/Time: 10/29/22 1300	Company WESTON
Relinquished by:	Date/Time: 11/1/22 1140	Company WESTON	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/2/22 1000	Company

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

Cooler Temperature(s) °C and Other Remarks: 0.6

Ver: 01/16/2019

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: M. KENNEY / W. TIFFT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68374-7540.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 2 of 3
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, Y - Trizma, Z - other (specify)
City: Concord	TAT Requested (days): STANDARD (*PLEASE SEE SAMPLE COMMENTS)			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #:			Other:
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
Site: NANTUCKET	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	PFC_IDA - 36 PFAS	Moisture	Special Instructions/Note:
WL-17-S-00-01	10/31/22	1015	G	S	X	X	* 5 DAY TAT
WL-17-S-01-02		1020			X	X	HOLD
WL-17-S-01-02 DUP		1020			X	X	HOLD
WL-17-S-03-04		1025			X	X	HOLD
WL-18-S-00-01		1055			X	X	* 5 DAY TAT
WL-18-S-01-02		1100			X	X	HOLD
WL-18-S-03-04		1105			X	X	HOLD
EB-103122-2		1130		W	X		HAND AUGER
WL-19-S-00-01		1140		S	X	X	* 5 DAY TAT
WL-19-S-01-02		1145			X	X	HOLD
WL-19-S-03-04		1150			X	X	HOLD

Total Number of containers

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
					MP
Relinquished by:	Date/Time: 11/1/22 1140	Company WESTON	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/2/22 1000	Company

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

Cooler Temperature(s) °C and Other Remarks: 0.6

Ver: 01/16/2019

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: M. KENNEY / W. TIFFT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68374-7540.1
Client Contact: Mr. Matthew Kenney	Phone: 8607122684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 3 of 3
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, Y - Trizma, Z - other (specify)
City: Concord	TAT Requested (days): STANDARD (PLEASE SEE SAMPLE COMMENTS)			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #:			Other:
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
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)	PFC_IDA - 36 PFAS	Moisture	Special Instructions/Note:
				Preservation Code:			N	N	
WL-19-S-03-04 DUP	10/31/22	1150	G	S			X	X	HOLD
WL-20-S-00-01		1215					X	X	+ 5 DAY TAT
WL-20-S-01-02		1220					X	X	HOLD
WL-20-S-03-04		1225					X	X	HOLD
EB-103122-3		1340		W			X		LINER
EB-103122-4		1350		W			X		DRILLING SHOE
SL-08-S-00-01		1410		S			X	X	
SL-08-S-01-02		1413					X	X	HOLD
SL-08-S-03-04		1416					X	X	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: 11/1/22 1140	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: 11/2/22 1000 / Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.6

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-104055-1

Login Number: 104055 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: McCaskey, Jonathan

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-104055-1
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:** 01/06/2023

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-104412-1

WESTON SAMPLE IDs: SL-09-S-00-01, SL-09-S-00-01 DUP, SL-10-S-00-01, SL-12-S-00-01, SL-15-S-00-01, SL-14-S-00-01, SL-17-S-00-01, SL-18-S-00-01, SL-19-S-00-01, SL-20-S-00-01, SL-16-S-00-01, SL-13-S-00-01, SL-11-S-00-01

Data Reviewed	**Fraction**				**Comments**
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				Analytes reported between MDL and RL flagged as estimated J.
Preservation/Log Sheet	√				
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	LCS 410-317947/2-B				NMeFOSA high: associated samples are non-detect. No qualifiers applied.
ICAL/ICV/CCV	√				
Lab Duplicates	NA				
Field Duplicates	√				SL-09-S-00-01 and SL-09-S-00-01 DUP
Isotope Dilution Recoveries	SL-18-S-00-01 SL-15-S-00-01				SL-18-S-00-01: M2-4:2-FTS, M2-6:2-FTS, M2-8:2-FTS high: qualify 4:2 FTS AND 8:2 FTS as estimated non-detect, UJ. Qualify 6:2 FTS as estimated J. SL-15-S-00-01: 13C4-PFBA low: qualify PFBA as estimated J.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: J, UJ

Data Reviewer Initials: RBE
Date: 1/25/2023

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Generated 1/10/2023 2:00:08 PM

JOB DESCRIPTION

Nantucket

JOB NUMBER

410-104412-1

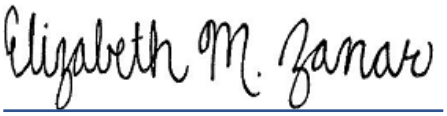
Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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1/10/2023 2:00:08 PM

Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

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

Job ID: 410-104412-1

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.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
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 Environment Testing, LLC	Project #:	410-104412-1
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:** 12/22/2022

Case Narrative

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

Job ID: 410-104412-1

Job ID: 410-104412-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-104412-1

Receipt
The samples were received on 11/4/2022 9:00 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 0.7°C

PFAS
Method PFC_IDA: The recovery for the labeled isotope 13C4 PFBA in the following sample: SL-15-S-00-01 (410-104412-11) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope was within QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) M2-4:2 FTS, M2-8:2 FTS and M2-6:2 FTS in the following sample: SL-18-S-00-01 (410-104412-20) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was within 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: 410-104412-1

Client Sample ID: SL-09-S-00-01 — Lab Sample ID: 410-104412-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.80		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.21	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.21	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.53	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.4		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-09-S-00-01 DUP — Lab Sample ID: 410-104412-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.98		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.26	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.29	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.65		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.26	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.7		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-10-S-00-01 — Lab Sample ID: 410-104412-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	7.2		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	3.9		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	3.1		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	2.7		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	1.2		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.55	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	3.8		2.1	0.63	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	3.8		2.1	0.84	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	13		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
6:2 Fluorotelomer sulfonic acid	20		2.1	0.63	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	1.5	J	3.2	0.63	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-12-S-00-01 — Lab Sample ID: 410-104412-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.2		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.9		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.8		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.85		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.23	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.35	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	1.2	J	2.1	0.86	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	2.9		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	1.3	J	2.1	0.64	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-15-S-00-01 — Lab Sample ID: 410-104412-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.2		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.96		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	1.8		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.56	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	1.1	J	2.1	0.84	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SL-15-S-00-01 (Continued) — Lab Sample ID: 410-104412-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid	6.0		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	26		2.1	0.63	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	3.4		3.1	0.63	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-14-S-00-01 — Lab Sample ID: 410-104412-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	23		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	6.2		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	4.3		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	1.1		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.58	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	0.45	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	1.5		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	8.6		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	0.68	J	2.1	0.63	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	2.4		2.1	0.83	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	28		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	1.3		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	1.7	J	2.1	0.63	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-17-S-00-01 — Lab Sample ID: 410-104412-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.5		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.44	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.29	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.37	J	0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.4		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	3.1		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	0.76	J	2.1	0.62	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-18-S-00-01 — Lab Sample ID: 410-104412-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	18		1.8	0.58	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	3.3		1.8	0.58	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	4.3		1.8	0.58	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	14		1.8	0.58	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	2.1		1.8	0.58	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	4.9	J	5.8	2.3	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	35		1.8	0.58	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	6.5		5.8	1.8	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-19-S-00-01 — Lab Sample ID: 410-104412-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.38	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.23	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorotridecanoic acid	0.75		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.86		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	4.3		0.60	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.39	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SL-19-S-00-01 (Continued) — Lab Sample ID: 410-104412-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroundecanoic acid	0.21	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-20-S-00-01 — Lab Sample ID: 410-104412-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.26	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.24	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.43	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.29	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.50	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.46	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	1.5	J	2.2	0.65	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.39	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	0.76	J	2.2	0.65	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-16-S-00-01 — Lab Sample ID: 410-104412-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.59	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.54	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.92		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.32	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-13-S-00-01 — Lab Sample ID: 410-104412-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.71		0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.46	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.65	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	1.4		0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.32	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.30	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.5		0.66	0.22	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: SL-11-S-00-01 — Lab Sample ID: 410-104412-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.50	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.56	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.69		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	1.4		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.22	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.21	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.3		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 410-104412-1

Client Sample ID: SL-09-S-00-01

Date Collected: 10/31/22 14:55
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-1

Matrix: Solid
Percent Solids: 94.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.80**		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluoroheptanoic acid	**0.21**	**J**	0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorooctanoic acid	**0.21**	**J**	0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorohexanesulfonic acid	**0.53**	**J**	0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorooctanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorobutanoic acid	<0.82		2.1	0.82	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluoropentanoic acid	**1.4**		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
NMeFOSE	<0.51		2.1	0.51	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
NMeFOSA	<0.51		2.1	0.51	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
NEtFOSE	<0.51		2.1	0.51	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
NEtFOSA	<0.51		2.1	0.51	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
6:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	11/15/22 22:11	11/22/22 01:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*10 - 200*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
M2-8:2 FTS	*104*		*15 - 200*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
13C5 PFHxA	*68*		*10 - 174*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
13C4 PFHpA	*76*		*10 - 178*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
13C8 PFOA	*72*		*26 - 159*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
13C9 PFNA	*90*		*26 - 165*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
13C6 PFDA	*81*		*26 - 161*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
13C7 PFUnA	*70*		*12 - 173*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
13C2-PFDoDA	*66*		*11 - 166*	*11/15/22 22:11*	*11/22/22 01:27*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*11/15/22 22:11*	*11/22/22 01:27*	*1*

Client Sample ID: SL-09-S-00-01

Lab Sample ID: 410-104412-1

Date Collected: 10/31/22 14:55
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 94.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	83		27 - 179	11/15/22 22:11	11/22/22 01:27	1
13C3 PFHxS	87		24 - 171	11/15/22 22:11	11/22/22 01:27	1
13C8 PFOS	98		41 - 154	11/15/22 22:11	11/22/22 01:27	1
d3-NMeFOSAA	21		10 - 178	11/15/22 22:11	11/22/22 01:27	1
d5-NEtFOSAA	28		10 - 193	11/15/22 22:11	11/22/22 01:27	1
13C8 FOSA	84		14 - 163	11/15/22 22:11	11/22/22 01:27	1
13C4 PFBA	77		28 - 153	11/15/22 22:11	11/22/22 01:27	1
13C5 PFPeA	74		24 - 161	11/15/22 22:11	11/22/22 01:27	1
d7-N-MeFOSE-M	66		10 - 179	11/15/22 22:11	11/22/22 01:27	1
d3-NMePFOSA	67		10 - 175	11/15/22 22:11	11/22/22 01:27	1
d9-N-EtFOSE-M	72		10 - 185	11/15/22 22:11	11/22/22 01:27	1
d5-NEtPFOSA	72		10 - 180	11/15/22 22:11	11/22/22 01:27	1
13C3 HFPO-DA	73		10 - 169	11/15/22 22:11	11/22/22 01:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.6**		1.0	1.0	%			11/06/22 00:26	1

Client Sample ID: SL-09-S-00-01 DUP

Lab Sample ID: 410-104412-2

Date Collected: 10/31/22 14:55
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 94.5

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.98**		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluoroheptanoic acid	**0.26**	**J**	0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorooctanoic acid	**0.29**	**J**	0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorononanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorodecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorotridecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorohexanesulfonic acid	**0.65**		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorooctanesulfonic acid	**0.26**	**J**	0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
10:2 FTS	<0.63		2.1	0.63	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorobutanoic acid	<0.85		2.1	0.85	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluoropentanoic acid	**1.7**		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1

Client Sample ID: SL-09-S-00-01 DUP

Date Collected: 10/31/22 14:55
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-2

Matrix: Solid
Percent Solids: 94.5

Method: EPA 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	☼	11/15/22 22:11	11/22/22 01:38	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
DONA	<0.21		3.2	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
Perfluoroundecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
6:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1
8:2 Fluorotelomer sulfonic acid	<0.63		3.2	0.63	ng/g	☼	11/15/22 22:11	11/22/22 01:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
M2-8:2 FTS	*115*		*15 - 200*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C5 PFHxA	*69*		*10 - 174*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C4 PFHpA	*77*		*10 - 178*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C8 PFOA	*72*		*26 - 159*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C9 PFNA	*84*		*26 - 165*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C6 PFDA	*80*		*26 - 161*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C7 PFUnA	*81*		*12 - 173*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C2-PFDoDA	*73*		*11 - 166*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C3 PFBS	*90*		*27 - 179*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C3 PFHxS	*92*		*24 - 171*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C8 PFOS	*95*		*41 - 154*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
d3-NMeFOSAA	*40*		*10 - 178*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
d5-NEtFOSAA	*51*		*10 - 193*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C8 FOSA	*87*		*14 - 163*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C4 PFBA	*76*		*28 - 153*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C5 PFPeA	*76*		*24 - 161*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
d7-N-MeFOSE-M	*74*		*10 - 179*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
d3-NMePFOSA	*68*		*10 - 175*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
d9-N-EtFOSE-M	*74*		*10 - 185*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
d5-NEtPFOSA	*69*		*10 - 180*	*11/15/22 22:11*	*11/22/22 01:38*	*1*
13C3 HFPO-DA	*70*		*10 - 169*	*11/15/22 22:11*	*11/22/22 01:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.5**		1.0	1.0	%			11/06/22 00:26	1

Client Sample ID: SL-10-S-00-01

Date Collected: 10/31/22 15:35
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-5

Matrix: Solid
Percent Solids: 94.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**7.2**		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluoroheptanoic acid	**3.9**		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorooctanoic acid	**3.1**		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1

Client Sample ID: SL-10-S-00-01
Date Collected: 10/31/22 15:35
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-5
Matrix: Solid
Percent Solids: 94.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	**2.7**		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorodecanoic acid	**1.2**		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorotridecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorohexanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorooctanesulfonic acid	**0.55**	**J**	0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
10:2 FTS	**3.8**		2.1	0.63	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorobutanoic acid	**3.8**		2.1	0.84	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluoropentanoic acid	**13**		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
DONA	<0.21		3.2	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
Perfluoroundecanoic acid	**0.24**	**J**	0.63	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
6:2 Fluorotelomer sulfonic acid	**20**		2.1	0.63	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1
8:2 Fluorotelomer sulfonic acid	**1.5**	**J**	3.2	0.63	ng/g	☼	11/15/22 22:11	11/22/22 02:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*69*		*10 - 200*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
M2-8:2 FTS	*98*		*15 - 200*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
M2-6:2 FTS	*78*		*10 - 200*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C5 PFHxA	*47*		*10 - 174*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C4 PFHpA	*51*		*10 - 178*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C8 PFOA	*53*		*26 - 159*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C9 PFNA	*56*		*26 - 165*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C6 PFDA	*53*		*26 - 161*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C7 PFUnA	*48*		*12 - 173*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C2-PFDoDA	*48*		*11 - 166*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C2 PFTeDA	*58*		*10 - 169*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C3 PFBS	*81*		*27 - 179*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C3 PFHxS	*87*		*24 - 171*	*11/15/22 22:11*	*11/22/22 02:22*	*1*
13C8 PFOS	*83*		*41 - 154*	*11/15/22 22:11*	*11/22/22 02:22*	*1*

Client Sample ID: SL-10-S-00-01

Lab Sample ID: 410-104412-5
Date Collected: 10/31/22 15:35
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 94.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	11		10 - 178	11/15/22 22:11	11/22/22 02:22	1
d5-NEtFOSAA	15		10 - 193	11/15/22 22:11	11/22/22 02:22	1
13C8 FOSA	76		14 - 163	11/15/22 22:11	11/22/22 02:22	1
13C4 PFBA	43		28 - 153	11/15/22 22:11	11/22/22 02:22	1
13C5 PFPeA	46		24 - 161	11/15/22 22:11	11/22/22 02:22	1
d7-N-MeFOSE-M	62		10 - 179	11/15/22 22:11	11/22/22 02:22	1
d3-NMePFOSA	59		10 - 175	11/15/22 22:11	11/22/22 02:22	1
d9-N-EtFOSE-M	68		10 - 185	11/15/22 22:11	11/22/22 02:22	1
d5-NEtPFOSA	64		10 - 180	11/15/22 22:11	11/22/22 02:22	1
13C3 HFPO-DA	52		10 - 169	11/15/22 22:11	11/22/22 02:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.1		1.0	1.0	%			11/06/22 00:26	1

Client Sample ID: SL-12-S-00-01

Lab Sample ID: 410-104412-8
Date Collected: 11/01/22 07:35
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 93.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.2		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluoroheptanoic acid	1.9		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorooctanoic acid	1.8		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorononanoic acid	0.85		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorodecanoic acid	0.23	J	0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorooctanesulfonic acid	0.35	J	0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
10:2 FTS	<0.64		2.1	0.64	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorobutanoic acid	1.2	J	2.1	0.86	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluoropentanoic acid	2.9		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
NMeFOSE	<0.54		2.1	0.54	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
NMeFOSA	<0.54		2.1	0.54	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
NEtFOSE	<0.54		2.1	0.54	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
NEtFOSA	<0.54		2.1	0.54	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1

Client Sample ID: SL-12-S-00-01

Lab Sample ID: 410-104412-8

Date Collected: 11/01/22 07:35
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 93.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	<0.21		3.2	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
6:2 Fluorotelomer sulfonic acid	**1.3**	**J**	2.1	0.64	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1
8:2 Fluorotelomer sulfonic acid	<0.64		3.2	0.64	ng/g	☼	11/15/22 22:11	11/22/22 02:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
M2-8:2 FTS	*137*		*15 - 200*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C5 PFHxA	*73*		*10 - 174*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C4 PFHpA	*75*		*10 - 178*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C8 PFOA	*72*		*26 - 159*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C9 PFNA	*83*		*26 - 165*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C6 PFDA	*80*		*26 - 161*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C7 PFUnA	*74*		*12 - 173*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C2-PFDoDA	*69*		*11 - 166*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C2 PFTeDA	*83*		*10 - 169*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C3 PFBS	*90*		*27 - 179*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C3 PFHxS	*99*		*24 - 171*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C8 PFOS	*106*		*41 - 154*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
d3-NMeFOSAA	*29*		*10 - 178*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
d5-NEtFOSAA	*41*		*10 - 193*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C8 FOSA	*87*		*14 - 163*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C4 PFBA	*65*		*28 - 153*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C5 PFPeA	*67*		*24 - 161*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
d7-N-MeFOSE-M	*72*		*10 - 179*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
d3-NMePFOSA	*69*		*10 - 175*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
d9-N-EtFOSE-M	*80*		*10 - 185*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
d5-NEtPFOSA	*74*		*10 - 180*	*11/15/22 22:11*	*11/22/22 02:56*	*1*
13C3 HFPO-DA	*65*		*10 - 169*	*11/15/22 22:11*	*11/22/22 02:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.8**		1.0	1.0	%			11/06/22 00:26	1

Client Sample ID: SL-15-S-00-01

Lab Sample ID: 410-104412-11

Date Collected: 11/01/22 08:10
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 94.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**3.2**		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluoroheptanoic acid	**0.96**		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorooctanoic acid	**1.8**		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorononanoic acid	**0.56**	**J**	0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorodecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorotridecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1

Client Sample ID: SL-15-S-00-01
Date Collected: 11/01/22 08:10
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-11
Matrix: Solid
Percent Solids: 94.6

Method: EPA 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	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorohexanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorooctanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
10:2 FTS	<0.63		2.1	0.63	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorobutanoic acid	**1.1**	**J**	2.1	0.84	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluoropentanoic acid	**6.0**		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
Perfluoroundecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
6:2 Fluorotelomer sulfonic acid	**26**		2.1	0.63	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1
8:2 Fluorotelomer sulfonic acid	**3.4**		3.1	0.63	ng/g	☼	11/15/22 12:33	11/22/22 23:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
M2-8:2 FTS	*97*		*15 - 200*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C5 PFHxA	*27*		*10 - 174*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C4 PFHpA	*34*		*10 - 178*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C8 PFOA	*38*		*26 - 159*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C9 PFNA	*49*		*26 - 165*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C6 PFDA	*56*		*26 - 161*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C7 PFUnA	*68*		*12 - 173*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C2-PFDoDA	*75*		*11 - 166*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C2 PFTeDA	*95*		*10 - 169*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C3 PFBS	*112*		*27 - 179*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C3 PFHxS	*106*		*24 - 171*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C8 PFOS	*100*		*41 - 154*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
d5-NEtFOSAA	*18*		*10 - 193*	*11/15/22 12:33*	*11/22/22 23:34*	*1*
13C8 FOSA	*83*		*14 - 163*	*11/15/22 12:33*	*11/22/22 23:34*	*1*

Client Sample ID: SL-15-S-00-01

Lab Sample ID: 410-104412-11

Date Collected: 11/01/22 08:10
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 94.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	22	*5- cn	28 - 153	11/15/22 12:33	11/22/22 23:34	1
13C5 PFPeA	28		24 - 161	11/15/22 12:33	11/22/22 23:34	1
d7-N-MeFOSE-M	76		10 - 179	11/15/22 12:33	11/22/22 23:34	1
d3-NMePFOSA	44		10 - 175	11/15/22 12:33	11/22/22 23:34	1
d9-N-EtFOSE-M	84		10 - 185	11/15/22 12:33	11/22/22 23:34	1
d5-NEtPFOSA	49		10 - 180	11/15/22 12:33	11/22/22 23:34	1
13C3 HFPO-DA	25		10 - 169	11/15/22 12:33	11/22/22 23:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.4		1.0	1.0	%			11/06/22 00:26	1

Client Sample ID: SL-14-S-00-01

Lab Sample ID: 410-104412-14

Date Collected: 11/01/22 08:30
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 88.0

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	23		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluoroheptanoic acid	6.2		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorooctanoic acid	4.3		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorononanoic acid	1.1		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorodecanoic acid	0.58	J	0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorotridecanoic acid	0.45	J	0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorohexanesulfonic acid	1.5		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorooctanesulfonic acid	8.6		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
10:2 FTS	0.68	J	2.1	0.63	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluorobutanoic acid	2.4		2.1	0.83	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluoropentanoic acid	28		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1

Client Sample ID: SL-14-S-00-01

Lab Sample ID: 410-104412-14
Date Collected: 11/01/22 08:30
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 88.0

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
Perfluoroundecanoic acid	**1.3**		0.63	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
6:2 Fluorotelomer sulfonic acid	**1.7**	**J**	2.1	0.63	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1
8:2 Fluorotelomer sulfonic acid	<0.63		3.1	0.63	ng/g	☼	11/15/22 12:33	11/22/22 23:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*108*		*10 - 200*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
M2-8:2 FTS	*152*		*15 - 200*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
M2-6:2 FTS	*119*		*10 - 200*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C5 PFHxA	*73*		*10 - 174*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C4 PFHpA	*80*		*10 - 178*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C8 PFOA	*77*		*26 - 159*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C9 PFNA	*92*		*26 - 165*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C6 PFDA	*93*		*26 - 161*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C7 PFUnA	*98*		*12 - 173*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C2 PFTeDA	*111*		*10 - 169*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C3 PFBS	*110*		*27 - 179*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C3 PFHxS	*110*		*24 - 171*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C8 PFOS	*113*		*41 - 154*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
d3-NMeFOSAA	*52*		*10 - 178*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
d5-NEtFOSAA	*69*		*10 - 193*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C8 FOSA	*86*		*14 - 163*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C4 PFBA	*73*		*28 - 153*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C5 PFPeA	*75*		*24 - 161*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
d7-N-MeFOSE-M	*81*		*10 - 179*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
d3-NMePFOSA	*63*		*10 - 175*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
d9-N-EtFOSE-M	*80*		*10 - 185*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
d5-NEtPFOSA	*64*		*10 - 180*	*11/15/22 12:33*	*11/22/22 23:45*	*1*
13C3 HFPO-DA	*72*		*10 - 169*	*11/15/22 12:33*	*11/22/22 23:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.0**		1.0	1.0	%			11/06/22 00:26	1

Client Sample ID: SL-17-S-00-01

Lab Sample ID: 410-104412-17
Date Collected: 11/01/22 15:00
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 91.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.5**		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluoroheptanoic acid	**0.44**	**J**	0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorooctanoic acid	**0.29**	**J**	0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorohexanesulfonic acid	**0.37**	**J**	0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1

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

Job ID: 410-104412-1

Client Sample ID: SL-17-S-00-01
Date Collected: 11/01/22 15:00
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-17
Matrix: Solid
Percent Solids: 91.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	**1.4**		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorooctadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluoropentanoic acid	**3.1**		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
6:2 Fluorotelomer sulfonic acid	**0.76**	**J**	2.1	0.62	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	11/15/22 12:33	11/22/22 23:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*99*		*10 - 200*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
M2-8:2 FTS	*178*		*15 - 200*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
M2-6:2 FTS	*115*		*10 - 200*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C5 PFHxA	*93*		*10 - 174*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C4 PFHpA	*102*		*10 - 178*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C8 PFOA	*98*		*26 - 159*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C9 PFNA	*104*		*26 - 165*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C6 PFDA	*104*		*26 - 161*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C7 PFUnA	*101*		*12 - 173*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C2-PFDoDA	*102*		*11 - 166*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C2 PFTeDA	*102*		*10 - 169*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C3 PFBS	*96*		*27 - 179*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C3 PFHxS	*100*		*24 - 171*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C8 PFOS	*101*		*41 - 154*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
d3-NMeFOSAA	*115*		*10 - 178*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
d5-NEtFOSAA	*120*		*10 - 193*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C8 FOSA	*81*		*14 - 163*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C4 PFBA	*98*		*28 - 153*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
13C5 PFPeA	*101*		*24 - 161*	*11/15/22 12:33*	*11/22/22 23:56*	*1*
d7-N-MeFOSE-M	*67*		*10 - 179*	*11/15/22 12:33*	*11/22/22 23:56*	*1*

Client Sample ID: SL-17-S-00-01

Lab Sample ID: 410-104412-17
Date Collected: 11/01/22 15:00
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 91.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	48		10 - 175	11/15/22 12:33	11/22/22 23:56	1
d9-N-EtFOSE-M	74		10 - 185	11/15/22 12:33	11/22/22 23:56	1
d5-NEtPFOSA	51		10 - 180	11/15/22 12:33	11/22/22 23:56	1
13C3 HFPO-DA	92		10 - 169	11/15/22 12:33	11/22/22 23:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.1		1.0	1.0	%			11/07/22 11:27	1

Client Sample ID: SL-18-S-00-01

Lab Sample ID: 410-104412-20
Date Collected: 11/01/22 15:35
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 30.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	18		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluoroheptanoic acid	3.3		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorooctanoic acid	4.3		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorononanoic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorodecanoic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorotridecanoic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorotetradecanoic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorobutanesulfonic acid	<1.2		5.8	1.2	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorohexanesulfonic acid	14		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorooctanesulfonic acid	2.1		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
NEtFOSAA	<0.58		5.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
NMeFOSAA	<0.58		5.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
10:2 FTS	<1.8		5.8	1.8	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluoropentanesulfonic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluoroheptanesulfonic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorononanesulfonic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorodecanesulfonic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.58		5.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorooctanesulfonamide	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorohexadecanoic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorooctadecanoic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorobutanoic acid	4.9	J	5.8	2.3	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluoropentanoic acid	35		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
NMeFOSE	<1.5		5.8	1.5	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
NMeFOSA	<1.5		5.8	1.5	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
NEtFOSE	<1.5		5.8	1.5	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
NEtFOSA	<1.5		5.8	1.5	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
HFPODA	<2.9		5.8	2.9	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
DONA	<0.58		8.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
9Cl-PF3ONS	<0.58		5.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
11Cl-PF3OUdS	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluorododecanoic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
4:2 Fluorotelomer sulfonic acid	<1.8		5.8	1.8	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
Perfluoroundecanoic acid	<0.58		1.8	0.58	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1

Client Sample ID: SL-18-S-00-01

Lab Sample ID: 410-104412-20

Date Collected: 11/01/22 15:35
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 30.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	**6.5**		5.8	1.8	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1
8:2 Fluorotelomer sulfonic acid	<1.8		8.8	1.8	ng/g	☼	11/15/22 12:33	11/23/22 00:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*237*	**5+ cn*	*10 - 200*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
M2-8:2 FTS	*333*	**5+ cn*	*15 - 200*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
M2-6:2 FTS	*281*	**5+ cn*	*10 - 200*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C5 PFHxA	*89*		*10 - 174*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C4 PFHpA	*94*		*10 - 178*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C8 PFOA	*98*		*26 - 159*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C9 PFNA	*95*		*26 - 165*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C6 PFDA	*99*		*26 - 161*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C7 PFUnA	*95*		*12 - 173*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C2-PFDoDA	*97*		*11 - 166*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C2 PFTeDA	*87*		*10 - 169*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C3 PFBS	*95*		*27 - 179*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C3 PFHxS	*108*		*24 - 171*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C8 PFOS	*104*		*41 - 154*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
d3-NMeFOSAA	*104*		*10 - 178*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
d5-NEtFOSAA	*97*		*10 - 193*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C8 FOSA	*81*		*14 - 163*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C4 PFBA	*97*		*28 - 153*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C5 PFPeA	*87*		*24 - 161*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
d7-N-MeFOSE-M	*77*		*10 - 179*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
d3-NMePFOSA	*73*		*10 - 175*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
d9-N-EtFOSE-M	*79*		*10 - 185*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
d5-NEtPFOSA	*74*		*10 - 180*	*11/15/22 12:33*	*11/23/22 00:07*	*1*
13C3 HFPO-DA	*85*		*10 - 169*	*11/15/22 12:33*	*11/23/22 00:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**69.2**		1.0	1.0	%			11/07/22 11:27	1

Client Sample ID: SL-19-S-00-01

Lab Sample ID: 410-104412-23

Date Collected: 11/02/22 09:10
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 94.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.38**	**J**	0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluoroheptanoic acid	**0.23**	**J**	0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorotridecanoic acid	**0.75**		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorohexanesulfonic acid	**0.86**		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorooctanesulfonic acid	**4.3**		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1

Client Sample ID: SL-19-S-00-01
Date Collected: 11/02/22 09:10
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-23
Matrix: Solid
Percent Solids: 94.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	<0.60		2.0	0.60	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorobutanoic acid	<0.81		2.0	0.81	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluoropentanoic acid	**0.39**	**J**	0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
HFPODA	<1.0		2.0	1.0	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
DONA	<0.20		3.0	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
Perfluoroundecanoic acid	**0.21**	**J**	0.60	0.20	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g	☼	11/15/22 12:33	11/23/22 00:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*105*		*10 - 200*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
M2-8:2 FTS	*180*		*15 - 200*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
M2-6:2 FTS	*116*		*10 - 200*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C5 PFHxA	*54*		*10 - 174*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C4 PFHpA	*57*		*10 - 178*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C8 PFOA	*60*		*26 - 159*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C9 PFNA	*73*		*26 - 165*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C6 PFDA	*78*		*26 - 161*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C7 PFUnA	*85*		*12 - 173*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C2-PFDoDA	*89*		*11 - 166*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C2 PFTeDA	*108*		*10 - 169*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C3 PFBS	*110*		*27 - 179*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C3 PFHxS	*102*		*24 - 171*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C8 PFOS	*116*		*41 - 154*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
d3-NMeFOSAA	*111*		*10 - 178*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
d5-NEtFOSAA	*126*		*10 - 193*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C8 FOSA	*94*		*14 - 163*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C4 PFBA	*55*		*28 - 153*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
13C5 PFPeA	*58*		*24 - 161*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
d7-N-MeFOSE-M	*85*		*10 - 179*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
d3-NMePFOSA	*61*		*10 - 175*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
d9-N-EtFOSE-M	*97*		*10 - 185*	*11/15/22 12:33*	*11/23/22 00:18*	*1*
d5-NEtPFOSA	*62*		*10 - 180*	*11/15/22 12:33*	*11/23/22 00:18*	*1*

Client Sample ID: SL-19-S-00-01

Lab Sample ID: 410-104412-23
Date Collected: 11/02/22 09:10
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 94.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*51*		*10 - 169*	*11/15/22 12:33*	*11/23/22 00:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.4**		1.0	1.0	%			11/07/22 11:27	1

Client Sample ID: SL-20-S-00-01

Lab Sample ID: 410-104412-26
Date Collected: 11/02/22 10:10
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 92.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.26**	**J**	0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluoroheptanoic acid	**0.24**	**J**	0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorooctanoic acid	**0.43**	**J**	0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorononanoic acid	**0.29**	**J**	0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorodecanoic acid	**0.50**	**J**	0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorotridecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorotetradecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorobutanesulfonic acid	<0.43		2.2	0.43	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorohexanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorooctanesulfonic acid	**0.46**	**J**	0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
NEtFOSAA	<0.22		2.2	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
NMeFOSAA	<0.22		2.2	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
10:2 FTS	**1.5**	**J**	2.2	0.65	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluoropentanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluoroheptanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorononanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorodecanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22		2.2	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorooctanesulfonamide	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorohexadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorooctadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorobutanoic acid	<0.86		2.2	0.86	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluoropentanoic acid	**0.39**	**J**	0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
NMeFOSE	<0.54		2.2	0.54	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
NMeFOSA	<0.54	*+	2.2	0.54	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
NEtFOSE	<0.54		2.2	0.54	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
NEtFOSA	<0.54		2.2	0.54	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
HFPODA	<1.1		2.2	1.1	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
DONA	<0.22		3.2	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
9Cl-PF3ONS	<0.22		2.2	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
11Cl-PF3OUdS	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluorododecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
4:2 Fluorotelomer sulfonic acid	<0.65		2.2	0.65	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
Perfluoroundecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
6:2 Fluorotelomer sulfonic acid	**0.76**	**J**	2.2	0.65	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1
8:2 Fluorotelomer sulfonic acid	<0.65		3.2	0.65	ng/g	☼	11/15/22 21:33	11/17/22 01:29	1

Client Sample ID: SL-20-S-00-01

Lab Sample ID: 410-104412-26

Date Collected: 11/02/22 10:10
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 92.6

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*98*		*10 - 200*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
M2-8:2 FTS	*139*		*15 - 200*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
M2-6:2 FTS	*114*		*10 - 200*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C5 PFHxA	*88*		*10 - 174*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C4 PFHpA	*91*		*10 - 178*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C8 PFOA	*89*		*26 - 159*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C9 PFNA	*106*		*26 - 165*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C6 PFDA	*89*		*26 - 161*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C7 PFUnA	*101*		*12 - 173*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C2-PFDoDA	*103*		*11 - 166*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C2 PFTeDA	*102*		*10 - 169*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C3 PFBS	*90*		*27 - 179*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C3 PFHxS	*95*		*24 - 171*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C8 PFOS	*96*		*41 - 154*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
d3-NMeFOSAA	*124*		*10 - 178*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
d5-NEtFOSAA	*128*		*10 - 193*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C8 FOSA	*80*		*14 - 163*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C4 PFBA	*94*		*28 - 153*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C5 PFPeA	*100*		*24 - 161*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
d7-N-MeFOSE-M	*84*		*10 - 179*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
d3-NMePFOSA	*55*		*10 - 175*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
d9-N-EtFOSE-M	*84*		*10 - 185*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
d5-NEtPFOSA	*75*		*10 - 180*	*11/15/22 21:33*	*11/17/22 01:29*	*1*
13C3 HFPO-DA	*81*		*10 - 169*	*11/15/22 21:33*	*11/17/22 01:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.4**		1.0	1.0	%			11/07/22 11:27	1

Client Sample ID: SL-16-S-00-01

Lab Sample ID: 410-104412-29

Date Collected: 11/02/22 11:00
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 88.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluoroheptanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorooctanoic acid	**0.59**	**J**	0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorononanoic acid	**0.54**	**J**	0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorodecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorooctanesulfonic acid	**0.92**		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
10:2 FTS	<0.64		2.1	0.64	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1

Client Sample ID: SL-16-S-00-01

Date Collected: 11/02/22 11:00
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-29

Matrix: Solid
Percent Solids: 88.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorobutanoic acid	<0.85		2.1	0.85	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluoropentanoic acid	**0.32**	**J**	0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
NMeFOSA	<0.53	*+	2.1	0.53	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
DONA	<0.21		3.2	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
6:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1
8:2 Fluorotelomer sulfonic acid	<0.64		3.2	0.64	ng/g	☼	11/15/22 21:33	11/17/22 02:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*78*		*10 - 200*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
M2-8:2 FTS	*88*		*15 - 200*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
M2-6:2 FTS	*86*		*10 - 200*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C5 PFHxA	*65*		*10 - 174*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C4 PFHpA	*70*		*10 - 178*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C8 PFOA	*72*		*26 - 159*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C9 PFNA	*81*		*26 - 165*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C6 PFDA	*78*		*26 - 161*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C7 PFUnA	*82*		*12 - 173*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C2-PFDoDA	*83*		*11 - 166*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C3 PFBS	*80*		*27 - 179*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C3 PFHxS	*85*		*24 - 171*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C8 PFOS	*85*		*41 - 154*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
d3-NMeFOSAA	*14*		*10 - 178*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
d5-NEtFOSAA	*18*		*10 - 193*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C8 FOSA	*74*		*14 - 163*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C4 PFBA	*67*		*28 - 153*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C5 PFPeA	*76*		*24 - 161*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
d7-N-MeFOSE-M	*85*		*10 - 179*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
d3-NMePFOSA	*54*		*10 - 175*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
d9-N-EtFOSE-M	*90*		*10 - 185*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
d5-NEtPFOSA	*77*		*10 - 180*	*11/15/22 21:33*	*11/17/22 02:02*	*1*
13C3 HFPO-DA	*62*		*10 - 169*	*11/15/22 21:33*	*11/17/22 02:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.4**		1.0	1.0	%			11/07/22 11:27	1

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

Job ID: 410-104412-1

Client Sample ID: SL-13-S-00-01

Date Collected: 11/02/22 11:30
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-32

Matrix: Solid
Percent Solids: 90.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.71**		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluoroheptanoic acid	**0.46**	**J**	0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorooctanoic acid	**0.65**	**J**	0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorononanoic acid	**1.4**		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorodecanoic acid	**0.32**	**J**	0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorotridecanoic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorotetradecanoic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorobutanesulfonic acid	<0.44		2.2	0.44	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorohexanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorooctanesulfonic acid	**0.30**	**J**	0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
NEtFOSAA	<0.22		2.2	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
NMeFOSAA	<0.22		2.2	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
10:2 FTS	<0.66		2.2	0.66	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluoropentanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluoroheptanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorononanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorodecanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22		2.2	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorooctanesulfonamide	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorohexadecanoic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorooctadecanoic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorobutanoic acid	<0.88		2.2	0.88	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluoropentanoic acid	**1.5**		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
NMeFOSE	<0.55		2.2	0.55	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
NMeFOSA	<0.55	*+	2.2	0.55	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
NEtFOSE	<0.55		2.2	0.55	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
NEtFOSA	<0.55		2.2	0.55	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
HFPODA	<1.1		2.2	1.1	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
DONA	<0.22		3.3	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
9Cl-PF3ONS	<0.22		2.2	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
11Cl-PF3OUdS	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluorododecanoic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
4:2 Fluorotelomer sulfonic acid	<0.66		2.2	0.66	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
Perfluoroundecanoic acid	<0.22		0.66	0.22	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
6:2 Fluorotelomer sulfonic acid	<0.66		2.2	0.66	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1
8:2 Fluorotelomer sulfonic acid	<0.66		3.3	0.66	ng/g	☼	11/15/22 21:33	11/17/22 02:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*78*		*10 - 200*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
M2-8:2 FTS	*78*		*15 - 200*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
M2-6:2 FTS	*82*		*10 - 200*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
13C5 PFHxA	*71*		*10 - 174*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
13C4 PFHpA	*74*		*10 - 178*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
13C8 PFOA	*72*		*26 - 159*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
13C9 PFNA	*86*		*26 - 165*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
13C6 PFDA	*80*		*26 - 161*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
13C7 PFUnA	*79*		*12 - 173*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
13C2-PFDoDA	*82*		*11 - 166*	*11/15/22 21:33*	*11/17/22 02:35*	*1*
13C2 PFTeDA	*87*		*10 - 169*	*11/15/22 21:33*	*11/17/22 02:35*	*1*

Client Sample ID: SL-13-S-00-01

Lab Sample ID: 410-104412-32

Date Collected: 11/02/22 11:30
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 90.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	79		27 - 179	11/15/22 21:33	11/17/22 02:35	1
13C3 PFHxS	76		24 - 171	11/15/22 21:33	11/17/22 02:35	1
13C8 PFOS	81		41 - 154	11/15/22 21:33	11/17/22 02:35	1
d3-NMeFOSAA	50		10 - 178	11/15/22 21:33	11/17/22 02:35	1
d5-NEtFOSAA	54		10 - 193	11/15/22 21:33	11/17/22 02:35	1
13C8 FOSA	73		14 - 163	11/15/22 21:33	11/17/22 02:35	1
13C4 PFBA	73		28 - 153	11/15/22 21:33	11/17/22 02:35	1
13C5 PFPeA	78		24 - 161	11/15/22 21:33	11/17/22 02:35	1
d7-N-MeFOSE-M	77		10 - 179	11/15/22 21:33	11/17/22 02:35	1
d3-NMePFOSA	49		10 - 175	11/15/22 21:33	11/17/22 02:35	1
d9-N-EtFOSE-M	78		10 - 185	11/15/22 21:33	11/17/22 02:35	1
d5-NEtPFOSA	71		10 - 180	11/15/22 21:33	11/17/22 02:35	1
13C3 HFPO-DA	66		10 - 169	11/15/22 21:33	11/17/22 02:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.2**		1.0	1.0	%			11/07/22 11:27	1

Client Sample ID: SL-11-S-00-01

Lab Sample ID: 410-104412-35

Date Collected: 11/02/22 11:50
Matrix: Solid
Date Received: 11/04/22 09:00
Percent Solids: 91.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.50**	**J**	0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluoroheptanoic acid	**0.56**	**J**	0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorooctanoic acid	**0.69**		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorononanoic acid	**1.4**		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorodecanoic acid	**0.22**	**J**	0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorooctanesulfonic acid	**0.21**	**J**	0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
10:2 FTS	<0.64		2.1	0.64	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorobutanoic acid	<0.85		2.1	0.85	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluoropentanoic acid	**1.3**		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1

Client Sample ID: SL-11-S-00-01
Date Collected: 11/02/22 11:50
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-35
Matrix: Solid
Percent Solids: 91.8

Method: EPA 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	☼	11/16/22 15:30	11/27/22 13:40	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
DONA	<0.21		3.2	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
6:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1
8:2 Fluorotelomer sulfonic acid	<0.64		3.2	0.64	ng/g	☼	11/16/22 15:30	11/27/22 13:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*77*		*10 - 200*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
M2-8:2 FTS	*83*		*15 - 200*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C5 PFHxA	*81*		*10 - 174*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C4 PFHpA	*85*		*10 - 178*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C8 PFOA	*85*		*26 - 159*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C9 PFNA	*92*		*26 - 165*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C6 PFDA	*77*		*26 - 161*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C7 PFUnA	*76*		*12 - 173*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C2-PFDoDA	*73*		*11 - 166*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C2 PFTeDA	*67*		*10 - 169*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C3 PFBS	*82*		*27 - 179*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C3 PFHxS	*92*		*24 - 171*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C8 PFOS	*89*		*41 - 154*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
d3-NMeFOSAA	*35*		*10 - 178*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
d5-NEtFOSAA	*44*		*10 - 193*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C8 FOSA	*79*		*14 - 163*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C4 PFBA	*73*		*28 - 153*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C5 PFPeA	*73*		*24 - 161*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
d7-N-MeFOSE-M	*62*		*10 - 179*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
d3-NMePFOSA	*63*		*10 - 175*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
d9-N-EtFOSE-M	*64*		*10 - 185*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
d5-NEtPFOSA	*64*		*10 - 180*	*11/16/22 15:30*	*11/27/22 13:40*	*1*
13C3 HFPO-DA	*74*		*10 - 169*	*11/16/22 15:30*	*11/27/22 13:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.2**		1.0	1.0	%			11/07/22 10:55	1

Isotope Dilution Summary

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

Job ID: 410-104412-1

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 (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
410-104412-1	SL-09-S-00-01	91	104	88	68	76	72	90	81
410-104412-2	SL-09-S-00-01 DUP	93	115	99	69	77	72	84	80
410-104412-5	SL-10-S-00-01	69	98	78	47	51	53	56	53
410-104412-8	SL-12-S-00-01	100	137	99	73	75	72	83	80
410-104412-11	SL-15-S-00-01	88	97	99	27	34	38	49	56
410-104412-14	SL-14-S-00-01	108	152	119	73	80	77	92	93
410-104412-17	SL-17-S-00-01	99	178	115	93	102	98	104	104
410-104412-20	SL-18-S-00-01	237 *5+ cn	333 *5+ cn	281 *5+ cn	89	94	98	95	99
410-104412-23	SL-19-S-00-01	105	180	116	54	57	60	73	78
410-104412-26	SL-20-S-00-01	98	139	114	88	91	89	106	89
410-104412-29	SL-16-S-00-01	78	88	86	65	70	72	81	78
410-104412-32	SL-13-S-00-01	78	78	82	71	74	72	86	80
410-104412-35	SL-11-S-00-01	77	83	88	81	85	85	92	77
LCS 410-317764/2-B	Lab Control Sample	107	87	100	69	74	82	93	96
LCS 410-317947/2-B	Lab Control Sample	82	73	85	80	81	82	92	85
LCS 410-317954/2-B	Lab Control Sample	95	96	90	84	81	91	109	87
LCS 410-318866/2-B	Lab Control Sample	83	70	76	73	77	81	81	79
MB 410-317764/1-B	Method Blank	91	76	88	63	68	73	89	81
MB 410-317947/1-B	Method Blank	105	106	100	109	110	103	110	105
MB 410-317954/1-B	Method Blank	89	103	89	79	81	82	104	87
MB 410-318866/1-B	Method Blank	67	60	63	65	66	67	73	66

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
410-104412-1	SL-09-S-00-01	70	66	84	83	87	98	21	28
410-104412-2	SL-09-S-00-01 DUP	81	73	86	90	92	95	40	51
410-104412-5	SL-10-S-00-01	48	48	58	81	87	83	11	15
410-104412-8	SL-12-S-00-01	74	69	83	90	99	106	29	41
410-104412-11	SL-15-S-00-01	68	75	95	112	106	100	12	18
410-104412-14	SL-14-S-00-01	98	99	111	110	110	113	52	69
410-104412-17	SL-17-S-00-01	101	102	102	96	100	101	115	120
410-104412-20	SL-18-S-00-01	95	97	87	95	108	104	104	97
410-104412-23	SL-19-S-00-01	85	89	108	110	102	116	111	126
410-104412-26	SL-20-S-00-01	101	103	102	90	95	96	124	128
410-104412-29	SL-16-S-00-01	82	83	84	80	85	85	14	18
410-104412-32	SL-13-S-00-01	79	82	87	79	76	81	50	54
410-104412-35	SL-11-S-00-01	76	73	67	82	92	89	35	44
LCS 410-317764/2-B	Lab Control Sample	101	107	132	107	105	114	79	76
LCS 410-317947/2-B	Lab Control Sample	90	92	102	86	87	90	81	81
LCS 410-317954/2-B	Lab Control Sample	79	73	90	85	91	105	78	80
LCS 410-318866/2-B	Lab Control Sample	78	71	66	82	79	85	68	68
MB 410-317764/1-B	Method Blank	94	105	115	87	93	105	70	75
MB 410-317947/1-B	Method Blank	105	104	124	108	110	114	91	89
MB 410-317954/1-B	Method Blank	75	74	79	87	90	101	73	76
MB 410-318866/1-B	Method Blank	63	57	48	71	73	72	60	60

Isotope Dilution Summary

Client: Weston Solutions, Inc. Job ID: 410-104412-1
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 (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
410-104412-1	SL-09-S-00-01	84	77	74	66	67	72	72	73
410-104412-2	SL-09-S-00-01 DUP	87	76	76	74	68	74	69	70
410-104412-5	SL-10-S-00-01	76	43	46	62	59	68	64	52
410-104412-8	SL-12-S-00-01	87	65	67	72	69	80	74	65
410-104412-11	SL-15-S-00-01	83	22 *5- cn	28	76	44	84	49	25
410-104412-14	SL-14-S-00-01	86	73	75	81	63	80	64	72
410-104412-17	SL-17-S-00-01	81	98	101	67	48	74	51	92
410-104412-20	SL-18-S-00-01	81	97	87	77	73	79	74	85
410-104412-23	SL-19-S-00-01	94	55	58	85	61	97	62	51
410-104412-26	SL-20-S-00-01	80	94	100	84	55	84	75	81
410-104412-29	SL-16-S-00-01	74	67	76	85	54	90	77	62
410-104412-32	SL-13-S-00-01	73	73	78	77	49	78	71	66
410-104412-35	SL-11-S-00-01	79	73	73	62	63	64	64	74
LCS 410-317764/2-B	Lab Control Sample	73	69	79	86	53	78	75	68
LCS 410-317947/2-B	Lab Control Sample	82	80	83	82	55	84	82	70
LCS 410-317954/2-B	Lab Control Sample	86	85	79	77	77	80	81	80
LCS 410-318866/2-B	Lab Control Sample	73	77	83	70	61	73	68	66
MB 410-317764/1-B	Method Blank	65	57	64	73	40	74	56	59
MB 410-317947/1-B	Method Blank	102	102	108	110	103	113	98	104
MB 410-317954/1-B	Method Blank	83	84	81	74	73	78	77	82
MB 410-318866/1-B	Method Blank	86	62	61	77	71	77	84	59

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 410-317764/1-B
Matrix: Solid
Analysis Batch: 318791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/15/22 12:33	11/18/22 09:31	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/15/22 12:33	11/18/22 09:31	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/15/22 12:33	11/18/22 09:31	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/15/22 12:33	11/18/22 09:31	1
HFPODA	<1.0		2.0	1.0	ng/g		11/15/22 12:33	11/18/22 09:31	1
DONA	<0.20		3.0	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/15/22 12:33	11/18/22 09:31	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 12:33	11/18/22 09:31	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/15/22 12:33	11/18/22 09:31	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/15/22 12:33	11/18/22 09:31	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*10 - 200*	*11/15/22 12:33*	*11/18/22 09:31*	*1*
M2-8:2 FTS	*76*		*15 - 200*	*11/15/22 12:33*	*11/18/22 09:31*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*11/15/22 12:33*	*11/18/22 09:31*	*1*
13C5 PFHxA	*63*		*10 - 174*	*11/15/22 12:33*	*11/18/22 09:31*	*1*
13C4 PFHpA	*68*		*10 - 178*	*11/15/22 12:33*	*11/18/22 09:31*	*1*
13C8 PFOA	*73*		*26 - 159*	*11/15/22 12:33*	*11/18/22 09:31*	*1*
13C9 PFNA	*89*		*26 - 165*	*11/15/22 12:33*	*11/18/22 09:31*	*1*
13C6 PFDA	*81*		*26 - 161*	*11/15/22 12:33*	*11/18/22 09:31*	*1*
13C7 PFUnA	*94*		*12 - 173*	*11/15/22 12:33*	*11/18/22 09:31*	*1*
13C2-PFDoDA	*105*		*11 - 166*	*11/15/22 12:33*	*11/18/22 09:31*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-317764/1-B
Matrix: Solid
Analysis Batch: 318791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317764

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	115		10 - 169	11/15/22 12:33	11/18/22 09:31	1
13C3 PFBS	87		27 - 179	11/15/22 12:33	11/18/22 09:31	1
13C3 PFHxS	93		24 - 171	11/15/22 12:33	11/18/22 09:31	1
13C8 PFOS	105		41 - 154	11/15/22 12:33	11/18/22 09:31	1
d3-NMeFOSAA	70		10 - 178	11/15/22 12:33	11/18/22 09:31	1
d5-NEtFOSAA	75		10 - 193	11/15/22 12:33	11/18/22 09:31	1
13C8 FOSA	65		14 - 163	11/15/22 12:33	11/18/22 09:31	1
13C4 PFBA	57		28 - 153	11/15/22 12:33	11/18/22 09:31	1
13C5 PFPeA	64		24 - 161	11/15/22 12:33	11/18/22 09:31	1
d7-N-MeFOSE-M	73		10 - 179	11/15/22 12:33	11/18/22 09:31	1
d3-NMePFOSA	40		10 - 175	11/15/22 12:33	11/18/22 09:31	1
d9-N-EtFOSE-M	74		10 - 185	11/15/22 12:33	11/18/22 09:31	1
d5-NEtPFOSA	56		10 - 180	11/15/22 12:33	11/18/22 09:31	1
13C3 HFPO-DA	59		10 - 169	11/15/22 12:33	11/18/22 09:31	1

Lab Sample ID: LCS 410-317764/2-B
Matrix: Solid
Analysis Batch: 318791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	25.0		ng/g		100	59 - 132
Perfluoroheptanoic acid	25.0	23.8		ng/g		95	59 - 137
Perfluorooctanoic acid	25.0	24.2		ng/g		97	59 - 131
Perfluorononanoic acid	25.0	23.6		ng/g		94	61 - 134
Perfluorodecanoic acid	25.0	25.6		ng/g		103	56 - 133
Perfluorotridecanoic acid	25.0	23.3		ng/g		93	53 - 143
Perfluorotetradecanoic acid	25.0	24.1		ng/g		96	62 - 134
Perfluorobutanesulfonic acid	22.1	21.0		ng/g		95	54 - 130
Perfluorohexanesulfonic acid	22.8	20.6		ng/g		90	59 - 129
Perfluorooctanesulfonic acid	23.1	20.9		ng/g		90	61 - 126
NEtFOSAA	25.0	25.5		ng/g		102	57 - 127
NMeFOSAA	25.0	25.7		ng/g		103	60 - 134
10:2 FTS	24.1	25.5		ng/g		106	46 - 143
Perfluoropentanesulfonic acid	23.5	24.2		ng/g		103	57 - 133
Perfluoroheptanesulfonic acid	23.8	22.7		ng/g		95	59 - 132
Perfluorononanesulfonic acid	24.0	19.9		ng/g		83	60 - 132
Perfluorodecanesulfonic acid	24.1	20.8		ng/g		86	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	25.3		ng/g		105	38 - 145
Perfluorooctanesulfonamide	25.0	26.5		ng/g		106	47 - 149
Perfluorohexadecanoic acid	25.0	18.6		ng/g		74	38 - 147
Perfluorooctadecanoic acid	25.0	19.9		ng/g		80	16 - 160
Perfluorobutanoic acid	25.0	23.7		ng/g		95	60 - 128
Perfluoropentanoic acid	25.0	22.7		ng/g		91	58 - 134
NMeFOSE	25.0	23.6		ng/g		94	60 - 130
NMeFOSA	25.0	31.2		ng/g		125	60 - 129
NEtFOSE	25.0	26.2		ng/g		105	60 - 126
NEtFOSA	25.0	22.9		ng/g		92	60 - 123
HFPODA	25.0	23.5		ng/g		94	49 - 135

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-317764/2-B
Matrix: Solid
Analysis Batch: 318791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	23.6	22.6		ng/g		96	57 - 137
9Cl-PF3ONS	23.3	22.2		ng/g		95	62 - 130
11Cl-PF3OUdS	23.3	20.6		ng/g		88	55 - 135
Perfluorododecanoic acid	25.0	24.7		ng/g		99	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.8		ng/g		85	58 - 131
Perfluoroundecanoic acid	25.0	23.3		ng/g		93	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.1		ng/g		85	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	23.2		ng/g		97	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*107*		*10 - 200*
M2-8:2 FTS	*87*		*15 - 200*
M2-6:2 FTS	*100*		*10 - 200*
13C5 PFHxA	*69*		*10 - 174*
13C4 PFHpA	*74*		*10 - 178*
13C8 PFOA	*82*		*26 - 159*
13C9 PFNA	*93*		*26 - 165*
13C6 PFDA	*96*		*26 - 161*
13C7 PFUnA	*101*		*12 - 173*
13C2-PFDoDA	*107*		*11 - 166*
13C2 PFTeDA	*132*		*10 - 169*
13C3 PFBS	*107*		*27 - 179*
13C3 PFHxS	*105*		*24 - 171*
13C8 PFOS	*114*		*41 - 154*
d3-NMeFOSAA	*79*		*10 - 178*
d5-NEtFOSAA	*76*		*10 - 193*
13C8 FOSA	*73*		*14 - 163*
13C4 PFBA	*69*		*28 - 153*
13C5 PFPeA	*79*		*24 - 161*
d7-N-MeFOSE-M	*86*		*10 - 179*
d3-NMePFOSA	*53*		*10 - 175*
d9-N-EtFOSE-M	*78*		*10 - 185*
d5-NEtPFOSA	*75*		*10 - 180*
13C3 HFPO-DA	*68*		*10 - 169*

Lab Sample ID: MB 410-317947/1-B
Matrix: Solid
Analysis Batch: 320217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-317947/1-B
Matrix: Solid
Analysis Batch: 320217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/15/22 21:33	11/22/22 11:57	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/15/22 21:33	11/22/22 11:57	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/15/22 21:33	11/22/22 11:57	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/15/22 21:33	11/22/22 11:57	1
HFPODA	<1.0		2.0	1.0	ng/g		11/15/22 21:33	11/22/22 11:57	1
DONA	<0.20		3.0	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/15/22 21:33	11/22/22 11:57	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 21:33	11/22/22 11:57	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/15/22 21:33	11/22/22 11:57	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/15/22 21:33	11/22/22 11:57	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*105*		*10 - 200*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
M2-8:2 FTS	*106*		*15 - 200*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
M2-6:2 FTS	*100*		*10 - 200*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C5 PFHxA	*109*		*10 - 174*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C4 PFHpA	*110*		*10 - 178*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C8 PFOA	*103*		*26 - 159*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C9 PFNA	*110*		*26 - 165*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C6 PFDA	*105*		*26 - 161*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C7 PFUnA	*105*		*12 - 173*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C2-PFDoDA	*104*		*11 - 166*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C2 PFTeDA	*124*		*10 - 169*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C3 PFBS	*108*		*27 - 179*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C3 PFHxS	*110*		*24 - 171*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C8 PFOS	*114*		*41 - 154*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
d3-NMeFOSAA	*91*		*10 - 178*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
d5-NEtFOSAA	*89*		*10 - 193*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C8 FOSA	*102*		*14 - 163*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C4 PFBA	*102*		*28 - 153*	*11/15/22 21:33*	*11/22/22 11:57*	*1*
13C5 PFPeA	*108*		*24 - 161*	*11/15/22 21:33*	*11/22/22 11:57*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-317947/1-B
Matrix: Solid
Analysis Batch: 320217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317947

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	110		10 - 179	11/15/22 21:33	11/22/22 11:57	1
d3-NMePFOSA	103		10 - 175	11/15/22 21:33	11/22/22 11:57	1
d9-N-EtFOSE-M	113		10 - 185	11/15/22 21:33	11/22/22 11:57	1
d5-NEtPFOSA	98		10 - 180	11/15/22 21:33	11/22/22 11:57	1
13C3 HFPO-DA	104		10 - 169	11/15/22 21:33	11/22/22 11:57	1

Lab Sample ID: LCS 410-317947/2-B
Matrix: Solid
Analysis Batch: 318337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	23.6		ng/g		94	59 - 132
Perfluoroheptanoic acid	25.0	24.0		ng/g		96	59 - 137
Perfluorooctanoic acid	25.0	25.3		ng/g		101	59 - 131
Perfluorononanoic acid	25.0	23.4		ng/g		94	61 - 134
Perfluorodecanoic acid	25.0	27.3		ng/g		109	56 - 133
Perfluorotridecanoic acid	25.0	24.6		ng/g		98	53 - 143
Perfluorotetradecanoic acid	25.0	26.3		ng/g		105	62 - 134
Perfluorobutanesulfonic acid	22.1	21.4		ng/g		97	54 - 130
Perfluorohexanesulfonic acid	22.8	21.1		ng/g		93	59 - 129
Perfluorooctanesulfonic acid	23.1	22.3		ng/g		96	61 - 126
NEtFOSAA	25.0	24.3		ng/g		97	57 - 127
NMeFOSAA	25.0	23.9		ng/g		96	60 - 134
10:2 FTS	24.1	25.1		ng/g		104	46 - 143
Perfluoropentanesulfonic acid	23.5	24.5		ng/g		105	57 - 133
Perfluoroheptanesulfonic acid	23.8	23.4		ng/g		98	59 - 132
Perfluorononanesulfonic acid	24.0	21.0		ng/g		88	60 - 132
Perfluorodecanesulfonic acid	24.1	22.7		ng/g		94	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	27.5		ng/g		114	38 - 145
Perfluorooctanesulfonamide	25.0	24.3		ng/g		97	47 - 149
Perfluorohexadecanoic acid	25.0	21.9		ng/g		88	38 - 147
Perfluorooctadecanoic acid	25.0	23.6		ng/g		94	16 - 160
Perfluorobutanoic acid	25.0	23.1		ng/g		92	60 - 128
Perfluoropentanoic acid	25.0	23.5		ng/g		94	58 - 134
NMeFOSE	25.0	26.2		ng/g		105	60 - 130
NMeFOSA	25.0	34.5	*+	ng/g		138	60 - 129
NEtFOSE	25.0	25.6		ng/g		102	60 - 126
NEtFOSA	25.0	23.4		ng/g		94	60 - 123
HFPODA	25.0	26.4		ng/g		106	49 - 135
DONA	23.6	22.4		ng/g		95	57 - 137
9Cl-PF3ONS	23.3	22.5		ng/g		97	62 - 130
11Cl-PF3OUdS	23.3	23.5		ng/g		101	55 - 135
Perfluorododecanoic acid	25.0	24.4		ng/g		98	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.0		ng/g		86	58 - 131
Perfluoroundecanoic acid	25.0	24.1		ng/g		97	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.3		ng/g		94	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	24.7		ng/g		103	55 - 133

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	82		10 - 200
M2-8:2 FTS	73		15 - 200
M2-6:2 FTS	85		10 - 200
13C5 PFHxA	80		10 - 174
13C4 PFHpA	81		10 - 178
13C8 PFOA	82		26 - 159
13C9 PFNA	92		26 - 165
13C6 PFDA	85		26 - 161
13C7 PFUnA	90		12 - 173
13C2-PFDoDA	92		11 - 166
13C2 PFTeDA	102		10 - 169
13C3 PFBS	86		27 - 179
13C3 PFHxS	87		24 - 171
13C8 PFOS	90		41 - 154
d3-NMeFOSAA	81		10 - 178
d5-NEtFOSAA	81		10 - 193
13C8 FOSA	82		14 - 163
13C4 PFBA	80		28 - 153
13C5 PFPeA	83		24 - 161
d7-N-MeFOSE-M	82		10 - 179
d3-NMePFOSA	55		10 - 175
d9-N-EtFOSE-M	84		10 - 185
d5-NEtPFOSA	82		10 - 180
13C3 HFPO-DA	70		10 - 169

Lab Sample ID: MB 410-317954/1-B
Matrix: Solid
Analysis Batch: 319704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-317954/1-B
Matrix: Solid
Analysis Batch: 319704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/15/22 22:11	11/21/22 23:36	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/15/22 22:11	11/21/22 23:36	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/15/22 22:11	11/21/22 23:36	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/15/22 22:11	11/21/22 23:36	1
HFPODA	<1.0		2.0	1.0	ng/g		11/15/22 22:11	11/21/22 23:36	1
DONA	<0.20		3.0	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/15/22 22:11	11/21/22 23:36	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/15/22 22:11	11/21/22 23:36	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/15/22 22:11	11/21/22 23:36	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/15/22 22:11	11/21/22 23:36	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*89*		*10 - 200*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
M2-8:2 FTS	*103*		*15 - 200*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
M2-6:2 FTS	*89*		*10 - 200*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C5 PFHxA	*79*		*10 - 174*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C4 PFHpA	*81*		*10 - 178*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C8 PFOA	*82*		*26 - 159*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C9 PFNA	*104*		*26 - 165*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C6 PFDA	*87*		*26 - 161*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C7 PFUnA	*75*		*12 - 173*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C2-PFDoDA	*74*		*11 - 166*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C2 PFTeDA	*79*		*10 - 169*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C3 PFBS	*87*		*27 - 179*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C3 PFHxS	*90*		*24 - 171*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C8 PFOS	*101*		*41 - 154*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
d3-NMeFOSAA	*73*		*10 - 178*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
d5-NEtFOSAA	*76*		*10 - 193*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C8 FOSA	*83*		*14 - 163*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C4 PFBA	*84*		*28 - 153*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C5 PFPeA	*81*		*24 - 161*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
d7-N-MeFOSE-M	*74*		*10 - 179*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
d3-NMePFOSA	*73*		*10 - 175*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
d9-N-EtFOSE-M	*78*		*10 - 185*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
d5-NEtPFOSA	*77*		*10 - 180*	*11/15/22 22:11*	*11/21/22 23:36*	*1*
13C3 HFPO-DA	*82*		*10 - 169*	*11/15/22 22:11*	*11/21/22 23:36*	*1*

Lab Sample ID: LCS 410-317954/2-B
Matrix: Solid
Analysis Batch: 319704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	24.8		ng/g		99	59 - 132
Perfluoroheptanoic acid	25.0	25.1		ng/g		100	59 - 137

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-317954/2-B
Matrix: Solid
Analysis Batch: 319704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	25.0	22.9		ng/g		92	59 - 131
Perfluorononanoic acid	25.0	24.6		ng/g		98	61 - 134
Perfluorodecanoic acid	25.0	25.5		ng/g		102	56 - 133
Perfluorotridecanoic acid	25.0	26.2		ng/g		105	53 - 143
Perfluorotetradecanoic acid	25.0	25.7		ng/g		103	62 - 134
Perfluorobutanesulfonic acid	22.1	23.5		ng/g		106	54 - 130
Perfluorohexanesulfonic acid	22.8	23.6		ng/g		104	59 - 129
Perfluorooctanesulfonic acid	23.1	23.0		ng/g		99	61 - 126
NEtFOSAA	25.0	24.7		ng/g		99	57 - 127
NMeFOSAA	25.0	25.5		ng/g		102	60 - 134
10:2 FTS	24.1	19.0		ng/g		79	46 - 143
Perfluoropentanesulfonic acid	23.5	23.8		ng/g		102	57 - 133
Perfluoroheptanesulfonic acid	23.8	24.8		ng/g		104	59 - 132
Perfluorononanesulfonic acid	24.0	24.5		ng/g		102	60 - 132
Perfluorodecanesulfonic acid	24.1	23.0		ng/g		96	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	24.0		ng/g		99	38 - 145
Perfluorooctanesulfonamide	25.0	25.3		ng/g		101	47 - 149
Perfluorohexadecanoic acid	25.0	21.4		ng/g		85	38 - 147
Perfluorooctadecanoic acid	25.0	19.7		ng/g		79	16 - 160
Perfluorobutanoic acid	25.0	22.9		ng/g		92	60 - 128
Perfluoropentanoic acid	25.0	25.8		ng/g		103	58 - 134
NMeFOSE	25.0	25.1		ng/g		100	60 - 130
NMeFOSA	25.0	24.3		ng/g		97	60 - 129
NEtFOSE	25.0	25.0		ng/g		100	60 - 126
NEtFOSA	25.0	23.7		ng/g		95	60 - 123
HFPODA	25.0	24.4		ng/g		97	49 - 135
DONA	23.6	26.4		ng/g		112	57 - 137
9Cl-PF3ONS	23.3	22.1		ng/g		95	62 - 130
11Cl-PF3OUdS	23.3	21.3		ng/g		91	55 - 135
Perfluorododecanoic acid	25.0	25.1		ng/g		100	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	21.2		ng/g		91	58 - 131
Perfluoroundecanoic acid	25.0	25.8		ng/g		103	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.8		ng/g		96	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	21.6		ng/g		90	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*95*		*10 - 200*
M2-8:2 FTS	*96*		*15 - 200*
M2-6:2 FTS	*90*		*10 - 200*
13C5 PFHxA	*84*		*10 - 174*
13C4 PFHpA	*81*		*10 - 178*
13C8 PFOA	*91*		*26 - 159*
13C9 PFNA	*109*		*26 - 165*
13C6 PFDA	*87*		*26 - 161*
13C7 PFUnA	*79*		*12 - 173*
13C2-PFDoDA	*73*		*11 - 166*
13C2 PFTeDA	*90*		*10 - 169*
13C3 PFBS	*85*		*27 - 179*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-317954/2-B
Matrix: Solid
Analysis Batch: 319704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317954

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 PFHxS	91		24 - 171
13C8 PFOS	105		41 - 154
d3-NMeFOSAA	78		10 - 178
d5-NEtFOSAA	80		10 - 193
13C8 FOSA	86		14 - 163
13C4 PFBA	85		28 - 153
13C5 PFPeA	79		24 - 161
d7-N-MeFOSE-M	77		10 - 179
d3-NMePFOSA	77		10 - 175
d9-N-EtFOSE-M	80		10 - 185
d5-NEtPFOSA	81		10 - 180
13C3 HFPO-DA	80		10 - 169

Lab Sample ID: MB 410-318866/1-B
Matrix: Solid
Analysis Batch: 321161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/16/22 15:30	11/29/22 03:27	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/16/22 15:30	11/29/22 03:27	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/16/22 15:30	11/29/22 03:27	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/16/22 15:30	11/29/22 03:27	1
HFPODA	<1.0		2.0	1.0	ng/g		11/16/22 15:30	11/29/22 03:27	1
DONA	<0.20		3.0	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-318866/1-B
Matrix: Solid
Analysis Batch: 321161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/16/22 15:30	11/29/22 03:27	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 15:30	11/29/22 03:27	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/16/22 15:30	11/29/22 03:27	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/16/22 15:30	11/29/22 03:27	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*		*10 - 200*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
M2-8:2 FTS	*60*		*15 - 200*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
M2-6:2 FTS	*63*		*10 - 200*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C5 PFHxA	*65*		*10 - 174*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C4 PFHpA	*66*		*10 - 178*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C8 PFOA	*67*		*26 - 159*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C9 PFNA	*73*		*26 - 165*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C6 PFDA	*66*		*26 - 161*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C7 PFUnA	*63*		*12 - 173*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C2-PFDoDA	*57*		*11 - 166*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C2 PFTeDA	*48*		*10 - 169*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C3 PFBS	*71*		*27 - 179*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C3 PFHxS	*73*		*24 - 171*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C8 PFOS	*72*		*41 - 154*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
d3-NMeFOSAA	*60*		*10 - 178*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
d5-NEtFOSAA	*60*		*10 - 193*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C8 FOSA	*86*		*14 - 163*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C4 PFBA	*62*		*28 - 153*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C5 PFPeA	*61*		*24 - 161*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
d7-N-MeFOSE-M	*77*		*10 - 179*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
d3-NMePFOSA	*71*		*10 - 175*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
d9-N-EtFOSE-M	*77*		*10 - 185*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*11/16/22 15:30*	*11/29/22 03:27*	*1*
13C3 HFPO-DA	*59*		*10 - 169*	*11/16/22 15:30*	*11/29/22 03:27*	*1*

Lab Sample ID: LCS 410-318866/2-B
Matrix: Solid
Analysis Batch: 320953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	27.3		ng/g		109	59 - 132
Perfluoroheptanoic acid	25.0	26.5		ng/g		106	59 - 137
Perfluorooctanoic acid	25.0	24.3		ng/g		97	59 - 131
Perfluorononanoic acid	25.0	26.3		ng/g		105	61 - 134
Perfluorodecanoic acid	25.0	26.4		ng/g		105	56 - 133
Perfluorotridecanoic acid	25.0	28.9		ng/g		116	53 - 143
Perfluorotetradecanoic acid	25.0	26.2		ng/g		105	62 - 134
Perfluorobutanesulfonic acid	22.1	25.3		ng/g		114	54 - 130
Perfluorohexanesulfonic acid	22.8	23.1		ng/g		101	59 - 129
Perfluorooctanesulfonic acid	23.1	24.0		ng/g		104	61 - 126
NEtFOSAA	25.0	27.0		ng/g		108	57 - 127

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-318866/2-B
Matrix: Solid
Analysis Batch: 320953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.0	24.6		ng/g		98	60 - 134
10:2 FTS	24.1	21.2		ng/g		88	46 - 143
Perfluoropentanesulfonic acid	23.5	26.3		ng/g		112	57 - 133
Perfluoroheptanesulfonic acid	23.8	25.7		ng/g		108	59 - 132
Perfluorononanesulfonic acid	24.0	26.0		ng/g		108	60 - 132
Perfluorodecanesulfonic acid	24.1	25.4		ng/g		106	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	24.3		ng/g		100	38 - 145
Perfluorooctanesulfonamide	25.0	25.0		ng/g		100	47 - 149
Perfluorohexadecanoic acid	25.0	25.7		ng/g		103	38 - 147
Perfluorooctadecanoic acid	25.0	26.9		ng/g		108	16 - 160
Perfluorobutanoic acid	25.0	23.3		ng/g		93	60 - 128
Perfluoropentanoic acid	25.0	25.2		ng/g		101	58 - 134
NMeFOSE	25.0	28.3		ng/g		113	60 - 130
NMeFOSA	25.0	30.4		ng/g		121	60 - 129
NEtFOSE	25.0	26.9		ng/g		108	60 - 126
NEtFOSA	25.0	27.1		ng/g		108	60 - 123
HFPODA	25.0	25.1		ng/g		100	49 - 135
DONA	23.6	25.0		ng/g		106	57 - 137
9Cl-PF3ONS	23.3	25.3		ng/g		109	62 - 130
11Cl-PF3OUdS	23.3	25.2		ng/g		108	55 - 135
Perfluorododecanoic acid	25.0	26.8		ng/g		107	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	23.7		ng/g		101	58 - 131
Perfluoroundecanoic acid	25.0	29.7		ng/g		119	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	28.3		ng/g		119	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	25.8		ng/g		108	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*83*		*10 - 200*
M2-8:2 FTS	*70*		*15 - 200*
M2-6:2 FTS	*76*		*10 - 200*
13C5 PFHxA	*73*		*10 - 174*
13C4 PFHpA	*77*		*10 - 178*
13C8 PFOA	*81*		*26 - 159*
13C9 PFNA	*81*		*26 - 165*
13C6 PFDA	*79*		*26 - 161*
13C7 PFUnA	*78*		*12 - 173*
13C2-PFDoDA	*71*		*11 - 166*
13C2 PFTeDA	*66*		*10 - 169*
13C3 PFBS	*82*		*27 - 179*
13C3 PFHxS	*79*		*24 - 171*
13C8 PFOS	*85*		*41 - 154*
d3-NMeFOSAA	*68*		*10 - 178*
d5-NEtFOSAA	*68*		*10 - 193*
13C8 FOSA	*73*		*14 - 163*
13C4 PFBA	*77*		*28 - 153*
13C5 PFPeA	*83*		*24 - 161*
d7-N-MeFOSE-M	*70*		*10 - 179*
d3-NMePFOSA	*61*		*10 - 175*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-318866/2-B
Matrix: Solid
Analysis Batch: 320953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318866

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	73		10 - 185
d5-NEtPFOSA	68		10 - 180
13C3 HFPO-DA	66		10 - 169

LCMS

Prep Batch: 317764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-11	SL-15-S-00-01	Total/NA	Solid	537 (mod)	
410-104412-14	SL-14-S-00-01	Total/NA	Solid	537 (mod)	
410-104412-17	SL-17-S-00-01	Total/NA	Solid	537 (mod)	
410-104412-20	SL-18-S-00-01	Total/NA	Solid	537 (mod)	
410-104412-23	SL-19-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-317764/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-317764/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Prep Batch: 317947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-26	SL-20-S-00-01	Total/NA	Solid	537 (mod)	
410-104412-29	SL-16-S-00-01	Total/NA	Solid	537 (mod)	
410-104412-32	SL-13-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-317947/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-317947/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Prep Batch: 317954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-1	SL-09-S-00-01	Total/NA	Solid	537 (mod)	
410-104412-2	SL-09-S-00-01 DUP	Total/NA	Solid	537 (mod)	
410-104412-5	SL-10-S-00-01	Total/NA	Solid	537 (mod)	
410-104412-8	SL-12-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-317954/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-317954/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 317957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-26	SL-20-S-00-01	Total/NA	Solid	Extract Aliquot	317947
410-104412-29	SL-16-S-00-01	Total/NA	Solid	Extract Aliquot	317947
410-104412-32	SL-13-S-00-01	Total/NA	Solid	Extract Aliquot	317947
MB 410-317947/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	317947
LCS 410-317947/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	317947

Cleanup Batch: 317965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-1	SL-09-S-00-01	Total/NA	Solid	Extract Aliquot	317954
410-104412-2	SL-09-S-00-01 DUP	Total/NA	Solid	Extract Aliquot	317954
410-104412-5	SL-10-S-00-01	Total/NA	Solid	Extract Aliquot	317954
410-104412-8	SL-12-S-00-01	Total/NA	Solid	Extract Aliquot	317954
MB 410-317954/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	317954
LCS 410-317954/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	317954

Cleanup Batch: 318145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-11	SL-15-S-00-01	Total/NA	Solid	Extract Aliquot	317764
410-104412-14	SL-14-S-00-01	Total/NA	Solid	Extract Aliquot	317764
410-104412-17	SL-17-S-00-01	Total/NA	Solid	Extract Aliquot	317764
410-104412-20	SL-18-S-00-01	Total/NA	Solid	Extract Aliquot	317764
410-104412-23	SL-19-S-00-01	Total/NA	Solid	Extract Aliquot	317764
MB 410-317764/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	317764
LCS 410-317764/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	317764

LCMS

Analysis Batch: 318337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-26	SL-20-S-00-01	Total/NA	Solid	537 IDA	317957
410-104412-29	SL-16-S-00-01	Total/NA	Solid	537 IDA	317957
410-104412-32	SL-13-S-00-01	Total/NA	Solid	537 IDA	317957
LCS 410-317947/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	317957

Analysis Batch: 318791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-317764/1-B	Method Blank	Total/NA	Solid	537 IDA	318145
LCS 410-317764/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	318145

Prep Batch: 318866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-35	SL-11-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-318866/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-318866/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 318882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-35	SL-11-S-00-01	Total/NA	Solid	Extract Aliquot	318866
MB 410-318866/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	318866
LCS 410-318866/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	318866

Analysis Batch: 319704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-1	SL-09-S-00-01	Total/NA	Solid	537 IDA	317965
410-104412-2	SL-09-S-00-01 DUP	Total/NA	Solid	537 IDA	317965
410-104412-5	SL-10-S-00-01	Total/NA	Solid	537 IDA	317965
410-104412-8	SL-12-S-00-01	Total/NA	Solid	537 IDA	317965
MB 410-317954/1-B	Method Blank	Total/NA	Solid	537 IDA	317965
LCS 410-317954/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	317965

Analysis Batch: 320217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-11	SL-15-S-00-01	Total/NA	Solid	537 IDA	318145
410-104412-14	SL-14-S-00-01	Total/NA	Solid	537 IDA	318145
410-104412-17	SL-17-S-00-01	Total/NA	Solid	537 IDA	318145
410-104412-20	SL-18-S-00-01	Total/NA	Solid	537 IDA	318145
410-104412-23	SL-19-S-00-01	Total/NA	Solid	537 IDA	318145
MB 410-317947/1-B	Method Blank	Total/NA	Solid	537 IDA	317957

Analysis Batch: 320953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-35	SL-11-S-00-01	Total/NA	Solid	537 IDA	318882
LCS 410-318866/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	318882

Analysis Batch: 321161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-318866/1-B	Method Blank	Total/NA	Solid	537 IDA	318882

LCMS

Prep Batch: 327866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-11 - RE	SL-15-S-00-01	Total/NA	Solid	537 (mod)	
410-104412-20 - RE	SL-18-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-327866/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-327866/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-327866/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 327902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-11 - RE	SL-15-S-00-01	Total/NA	Solid	Extract Aliquot	327866
410-104412-20 - RE	SL-18-S-00-01	Total/NA	Solid	Extract Aliquot	327866
MB 410-327866/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	327866
LCS 410-327866/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	327866
LCSD 410-327866/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	327866

Analysis Batch: 328436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-11 - RE	SL-15-S-00-01	Total/NA	Solid	537 IDA	327902
410-104412-20 - RE	SL-18-S-00-01	Total/NA	Solid	537 IDA	327902
MB 410-327866/1-B	Method Blank	Total/NA	Solid	537 IDA	327902
LCS 410-327866/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	327902
LCSD 410-327866/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	327902

General Chemistry

Analysis Batch: 314325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-1	SL-09-S-00-01	Total/NA	Solid	Moisture	
410-104412-2	SL-09-S-00-01 DUP	Total/NA	Solid	Moisture	
410-104412-5	SL-10-S-00-01	Total/NA	Solid	Moisture	
410-104412-8	SL-12-S-00-01	Total/NA	Solid	Moisture	
410-104412-11	SL-15-S-00-01	Total/NA	Solid	Moisture	
410-104412-14	SL-14-S-00-01	Total/NA	Solid	Moisture	

Analysis Batch: 314674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-35	SL-11-S-00-01	Total/NA	Solid	Moisture	

Analysis Batch: 314687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104412-17	SL-17-S-00-01	Total/NA	Solid	Moisture	
410-104412-20	SL-18-S-00-01	Total/NA	Solid	Moisture	
410-104412-23	SL-19-S-00-01	Total/NA	Solid	Moisture	
410-104412-26	SL-20-S-00-01	Total/NA	Solid	Moisture	
410-104412-29	SL-16-S-00-01	Total/NA	Solid	Moisture	
410-104412-32	SL-13-S-00-01	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 410-104412-1

Client Sample ID: SL-09-S-00-01
Date Collected: 10/31/22 14:55
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314325	USWF	ELLE	11/06/22 00:26

Client Sample ID: SL-09-S-00-01
Date Collected: 10/31/22 14:55
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-1
Matrix: Solid
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317954	DTA4	ELLE	11/15/22 22:11
Total/NA	Cleanup	Extract Aliquot			317965	DTA4	ELLE	11/15/22 23:31
Total/NA	Analysis	537 IDA		1	319704	UUV6	ELLE	11/22/22 01:27

Client Sample ID: SL-09-S-00-01 DUP
Date Collected: 10/31/22 14:55
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314325	USWF	ELLE	11/06/22 00:26

Client Sample ID: SL-09-S-00-01 DUP
Date Collected: 10/31/22 14:55
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-2
Matrix: Solid
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317954	DTA4	ELLE	11/15/22 22:11
Total/NA	Cleanup	Extract Aliquot			317965	DTA4	ELLE	11/15/22 23:31
Total/NA	Analysis	537 IDA		1	319704	UUV6	ELLE	11/22/22 01:38

Client Sample ID: SL-10-S-00-01
Date Collected: 10/31/22 15:35
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314325	USWF	ELLE	11/06/22 00:26

Client Sample ID: SL-10-S-00-01
Date Collected: 10/31/22 15:35
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-5
Matrix: Solid
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317954	DTA4	ELLE	11/15/22 22:11
Total/NA	Cleanup	Extract Aliquot			317965	DTA4	ELLE	11/15/22 23:31
Total/NA	Analysis	537 IDA		1	319704	UUV6	ELLE	11/22/22 02:22

Lab Chronicle

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

Job ID: 410-104412-1

Client Sample ID: SL-12-S-00-01
Date Collected: 11/01/22 07:35
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314325	USWF	ELLE	11/06/22 00:26

Client Sample ID: SL-12-S-00-01
Date Collected: 11/01/22 07:35
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-8
Matrix: Solid
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317954	DTA4	ELLE	11/15/22 22:11
Total/NA	Cleanup	Extract Aliquot			317965	DTA4	ELLE	11/15/22 23:31
Total/NA	Analysis	537 IDA		1	319704	UUV6	ELLE	11/22/22 02:56

Client Sample ID: SL-15-S-00-01
Date Collected: 11/01/22 08:10
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314325	USWF	ELLE	11/06/22 00:26

Client Sample ID: SL-15-S-00-01
Date Collected: 11/01/22 08:10
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-11
Matrix: Solid
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)	RE		327866	Q5YX	ELLE	12/16/22 10:41
Total/NA	Cleanup	Extract Aliquot	RE		327902	Q5YX	ELLE	12/16/22 11:50
Total/NA	Analysis	537 IDA	RE	1	328436	UCD3	ELLE	12/19/22 15:39
Total/NA	Prep	537 (mod)			317764	VK3G	ELLE	11/15/22 12:33
Total/NA	Cleanup	Extract Aliquot			318145	VK3G	ELLE	11/16/22 10:05
Total/NA	Analysis	537 IDA		1	320217	QD9Y	ELLE	11/22/22 23:34

Client Sample ID: SL-14-S-00-01
Date Collected: 11/01/22 08:30
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314325	USWF	ELLE	11/06/22 00:26

Client Sample ID: SL-14-S-00-01
Date Collected: 11/01/22 08:30
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-14
Matrix: Solid
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317764	VK3G	ELLE	11/15/22 12:33
Total/NA	Cleanup	Extract Aliquot			318145	VK3G	ELLE	11/16/22 10:05
Total/NA	Analysis	537 IDA		1	320217	QD9Y	ELLE	11/22/22 23:45

Lab Chronicle

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

Job ID: 410-104412-1

Client Sample ID: SL-17-S-00-01
Date Collected: 11/01/22 15:00
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314687	UWC1	ELLE	11/07/22 11:27

Client Sample ID: SL-17-S-00-01
Date Collected: 11/01/22 15:00
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-17
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317764	VK3G	ELLE	11/15/22 12:33
Total/NA	Cleanup	Extract Aliquot			318145	VK3G	ELLE	11/16/22 10:05
Total/NA	Analysis	537 IDA		1	320217	QD9Y	ELLE	11/22/22 23:56

Client Sample ID: SL-18-S-00-01
Date Collected: 11/01/22 15:35
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314687	UWC1	ELLE	11/07/22 11:27

Client Sample ID: SL-18-S-00-01
Date Collected: 11/01/22 15:35
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-20
Matrix: Solid
Percent Solids: 30.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)	RE		327866	Q5YX	ELLE	12/16/22 10:41
Total/NA	Cleanup	Extract Aliquot	RE		327902	Q5YX	ELLE	12/16/22 11:50
Total/NA	Analysis	537 IDA	RE	1	328436	UCD3	ELLE	12/19/22 15:50
Total/NA	Prep	537 (mod)			317764	VK3G	ELLE	11/15/22 12:33
Total/NA	Cleanup	Extract Aliquot			318145	VK3G	ELLE	11/16/22 10:05
Total/NA	Analysis	537 IDA		1	320217	QD9Y	ELLE	11/23/22 00:07

Client Sample ID: SL-19-S-00-01
Date Collected: 11/02/22 09:10
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314687	UWC1	ELLE	11/07/22 11:27

Client Sample ID: SL-19-S-00-01
Date Collected: 11/02/22 09:10
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-23
Matrix: Solid
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317764	VK3G	ELLE	11/15/22 12:33
Total/NA	Cleanup	Extract Aliquot			318145	VK3G	ELLE	11/16/22 10:05
Total/NA	Analysis	537 IDA		1	320217	QD9Y	ELLE	11/23/22 00:18

Lab Chronicle

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

Job ID: 410-104412-1

Client Sample ID: SL-20-S-00-01
Date Collected: 11/02/22 10:10
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314687	UWC1	ELLE	11/07/22 11:27

Client Sample ID: SL-20-S-00-01
Date Collected: 11/02/22 10:10
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-26
Matrix: Solid
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317947	TAS6	ELLE	11/15/22 21:33
Total/NA	Cleanup	Extract Aliquot			317957	TAS6	ELLE	11/15/22 22:22
Total/NA	Analysis	537 IDA		1	318337	QD9Y	ELLE	11/17/22 01:29

Client Sample ID: SL-16-S-00-01
Date Collected: 11/02/22 11:00
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314687	UWC1	ELLE	11/07/22 11:27

Client Sample ID: SL-16-S-00-01
Date Collected: 11/02/22 11:00
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-29
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317947	TAS6	ELLE	11/15/22 21:33
Total/NA	Cleanup	Extract Aliquot			317957	TAS6	ELLE	11/15/22 22:22
Total/NA	Analysis	537 IDA		1	318337	QD9Y	ELLE	11/17/22 02:02

Client Sample ID: SL-13-S-00-01
Date Collected: 11/02/22 11:30
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314687	UWC1	ELLE	11/07/22 11:27

Client Sample ID: SL-13-S-00-01
Date Collected: 11/02/22 11:30
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-32
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			317947	TAS6	ELLE	11/15/22 21:33
Total/NA	Cleanup	Extract Aliquot			317957	TAS6	ELLE	11/15/22 22:22
Total/NA	Analysis	537 IDA		1	318337	QD9Y	ELLE	11/17/22 02:35

Lab Chronicle

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

Job ID: 410-104412-1

Client Sample ID: SL-11-S-00-01
Date Collected: 11/02/22 11:50
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	314674	UWC1	ELLE	11/07/22 10:55

Client Sample ID: SL-11-S-00-01
Date Collected: 11/02/22 11:50
Date Received: 11/04/22 09:00

Lab Sample ID: 410-104412-35
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318866	TAS6	ELLE	11/16/22 15:30
Total/NA	Cleanup	Extract Aliquot			318882	X5YV	ELLE	11/17/22 21:35
Total/NA	Analysis	537 IDA		1	320953	MT26	ELLE	11/27/22 13:40

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-104412-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	01-14-23

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
Moisture		Solid	Percent Moisture

Method Summary

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

Job ID: 410-104412-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
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 Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

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

Job ID: 410-104412-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-104412-1	SL-09-S-00-01	Solid	10/31/22 14:55	11/04/22 09:00
410-104412-2	SL-09-S-00-01 DUP	Solid	10/31/22 14:55	11/04/22 09:00
410-104412-5	SL-10-S-00-01	Solid	10/31/22 15:35	11/04/22 09:00
410-104412-8	SL-12-S-00-01	Solid	11/01/22 07:35	11/04/22 09:00
410-104412-11	SL-15-S-00-01	Solid	11/01/22 08:10	11/04/22 09:00
410-104412-14	SL-14-S-00-01	Solid	11/01/22 08:30	11/04/22 09:00
410-104412-17	SL-17-S-00-01	Solid	11/01/22 15:00	11/04/22 09:00
410-104412-20	SL-18-S-00-01	Solid	11/01/22 15:35	11/04/22 09:00
410-104412-23	SL-19-S-00-01	Solid	11/02/22 09:10	11/04/22 09:00
410-104412-26	SL-20-S-00-01	Solid	11/02/22 10:10	11/04/22 09:00
410-104412-29	SL-16-S-00-01	Solid	11/02/22 11:00	11/04/22 09:00
410-104412-32	SL-13-S-00-01	Solid	11/02/22 11:30	11/04/22 09:00
410-104412-35	SL-11-S-00-01	Solid	11/02/22 11:50	11/04/22 09:00

410-104412 Chain of Custody

ronme

Chain of Custody Record

eurofins | Environment Testing America

Client Contact: Mr. Matthew Kenney	Sampler: W. TIFFT/M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68374-7540.1
Company: Weston Solutions, Inc.	Phone: 860 7122684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 1 of 4
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; Y - Trizma; Z - other (specify); Other:
Phone: 860 7122684	Compliance Project: Δ Yes Δ No			
Email: Matthew.Kenney@WestonSolutions.com	PO #:			
Project Name: Nantucket	WO #:			
Site:	Project #: 41001960			
	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)	PFC_IDA - 36 PFAS	Moisture	Total Number of containers	Special Instructions/Note:
SL-09-S-00-01	10/31/22	1455	G	S	X	X		
SL-09-S-00-01 DUP		1455						
SL-09-S-01-02		1458						HOLD
SL-09-S-03-04		1500						HOLD
SL-10-S-00-01		1535						
SL-10-S-01-02		1538						HOLD
SL-10-S-03-04		1540						HOLD
SL-12-S-00-01	11/1/22	0735						
SL-12-S-01-02		0738						HOLD
SL-12-S-03-04		0740						HOLD
SL-15-S-00-01		0810						

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

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	11/3/22 1640	WESTON			
Relinquished by:					
Relinquished by:				11/4/22 0900	

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

Cooler Temperature(s) °C and Other Remarks: 0.7

Ver: 01/16/2019

1/10/2023

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: WT / MK	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68374-7540.1
Client Contact: Mr. Matthew Kenney	Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	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, Y - Trizma, Z - other (specify)
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			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)	PFC_IDA - 36 PFAS	Moisture	Special Instructions/Note:
			Preservation Code:		N	N	
SL-15-S-01-02	11/1/22	0813	G	S	X	X	HOLD
SL-15-S-03-04		0815					HOLD
SL-14-S-00-01		0830					
SL-14-S-01-02		0833					HOLD
SL-14-S-03-04		0835					HOLD
SL-17-S-00-01		1500					
SL-17-S-01-02 (MD)		1503					HOLD
SL-17-S-03-04		1505					HOLD
SL-18-S-00-01		1535					
SL-18-S-01-02		1538					HOLD
SL-18-S-03-04		1540					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		11/3/22 1640	WESTON			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	11/4/22 0900	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 6.7

Ver: 01/16/2019

1/10/2023

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: WT / MK	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68374-7540.1
Client Contact: Mr. Matthew Kenney	Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 3 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, Y - Trizma, Z - other (specify)
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			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)	PFC_IDA - 36 PFAS	Moisture	Special Instructions/Note:
		Preservation Code:			X	X			
SL-19-S-00-01	11/2/22	0910	G	S			X	X	
SL-19-S-01-02		0913							HOLD
SL-19-S-03-04		0915							HOLD
SL-20-S-00-01		1010							
SL-20-S-01-02		1013							HOLD
SL-20-S-03-04		1015							HOLD
SL-16-S-00-01		1100							
SL-16-S-01-02		1103							HOLD
SL-16-S-03-04		1105							HOLD
SL-13-S-00-01		1130							
SL-13-S-01-02		1133							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
		11/3/22 1640	WESTON			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	11/4/22 0900	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.7

Ver: 01/16/2019

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: WT / MK	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68374-7540.1
Client Contact: Mr. Matthew Kenney	Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.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: 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, Y - Trizma, Z - other (specify)
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			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)	PFC_IDA - 36 PFAS	Moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:										
SL-13-S-03-04	11/2/22	1135	G	S			X	X		HOLD
SL-11-S-00-01	"	1150	"	"			"	"		
SL-11-S-01-02	"	1153	"	"			"	"		HOLD
SL-11-S-03-04	"	1155	"	"			"	"		HOLD

MK

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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]	11/3/22 1640	WESTON			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	11/4/22 0900	[signature]

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-104412-1

Login Number: 104412 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: McBeth, Jessica

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-104412-1
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:** 12/22/2022

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-104627-1

WESTON SAMPLE IDs: EB-110222, EB-110222-2, EB-110222-3, EB-110222-4, EB-110322, NOR-23-GW-76, NOR-22-GW-81, NOR-24-GW-71, NOR-25-GW-56, SRE-19-GW-51, SRE-20-GW-51, RW15-10-GW-91

Data Reviewed	**Fraction**				**Comments**
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				
Preservation/Log Sheet	√				
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	√				
ICAL/ICV/CCV	√				Laboratory noted that d3-NMeFOSAA and d5-NEtFOSAA were outside the recovery limits in CCVs, but recovered within limits in associated samples. No qualifiers applied.
Lab Duplicates	NA				
Field Duplicates	NA				
Isotope Dilution Recoveries	EB-110222-2				13C2-PFTeDA high: qualify PFTeDA, PFHxDA, and PFODA as estimated non-detects, UJ.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: UJ

Data Reviewer Initials: RBE
Date: 1/24/2023

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Generated 12/2/2022 5:09:19 PM

JOB DESCRIPTION

Nantucket

JOB NUMBER

410-104627-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

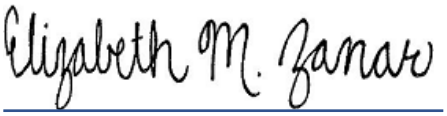
See page two for job notes and contact information.

my EOL

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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12/2/2022 5:09:19 PM

Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

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

Job ID: 410-104627-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail

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 Environment Testing, LLC	Project #:	410-104627-1
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:** 12/02/2022

Case Narrative

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

Job ID: 410-104627-1

Job ID: 410-104627-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-104627-1

Receipt
The samples were received on 11/5/2022 10:55 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 0.4°C

PFAS
Method PFC_IDA: The recovery for labeled isotope: d3-NMeFOSAA is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the recovery for the labeled isotope is within QC limits in the following samples: EB-110222 (410-104627-1), EB-110222-2 (410-104627-2), EB-110222-3 (410-104627-3), EB-110222-4 (410-104627-4), NOR-23-GW-76 (410-104627-5) and NOR-22-GW-81 (410-104627-6), the data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) 13C2 PFTeDA in the following sample: EB-110222-2 (410-104627-2) 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: Sediment was present in sample: NOR-23-GW-76 (410-104627-5) and NOR-22-GW-81 (410-104627-6); therefore, the samples were centrifuged and decanted.

Method PFC_IDA: The recovery for labeled isotope: d5-NEtFOSAA is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the recovery for the labeled isotope is within QC limits in the following sample: RW15-10-GW-91 (410-104627-12), the data is reported.

Method PFC_IDA: Sediment was present in sample: NOR-24-GW-71 (410-104627-7), NOR-25-GW-56 (410-104627-8) and SRE-19-GW-51 (410-104627-9); therefore, the samples were centrifuged and decanted.

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: 410-104627-1

Client Sample ID: EB-110222 — Lab Sample ID: 410-104627-1

No Detections.

Client Sample ID: EB-110222-2 — Lab Sample ID: 410-104627-2

No Detections.

Client Sample ID: EB-110222-3 — Lab Sample ID: 410-104627-3

No Detections.

Client Sample ID: EB-110222-4 — Lab Sample ID: 410-104627-4

No Detections.

Client Sample ID: NOR-23-GW-76 — Lab Sample ID: 410-104627-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.9	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	2.5	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorodecanoic acid	1.9	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: NOR-22-GW-81 — Lab Sample ID: 410-104627-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.6	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	2.8	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: NOR-24-GW-71 — Lab Sample ID: 410-104627-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	8.3	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	4.4	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	18	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	5.1	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorodecanoic acid	11	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
10:2 FTS	19	cn	4.4		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorododecanoic acid	5.1	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroundecanoic acid	4.4	cn	1.8		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	6.9	cn	4.4		ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	11	cn	2.6		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: NOR-25-GW-56 — Lab Sample ID: 410-104627-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	140	cn	1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	43	cn	4.2		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	310	cn	1.7		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: SRE-19-GW-51 — Lab Sample ID: 410-104627-9

No Detections.

Client Sample ID: SRE-20-GW-51 — Lab Sample ID: 410-104627-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	38		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	7.7		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	7.9		1.8		ng/L	1		EPA 537 (Mod)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample ID: SRE-20-GW-51 (Continued) — Lab Sample ID: 410-104627-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	2.3		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	5.2		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	6.4		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	16		4.4		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	63		1.8		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: EB-110322 — Lab Sample ID: 410-104627-11

No Detections.

Client Sample ID: RW15-10-GW-91 — Lab Sample ID: 410-104627-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.7		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	2.0		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	8.6		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	5.7		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	32		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanesulfonic acid	2.1		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	2.0		1.8		ng/L	1		EPA 537 (Mod)	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 410-104627-1

Client Sample ID: EB-110222

Date Collected: 11/02/22 13:40
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-1

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorononanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
NEtFOSAA	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
NMeFOSAA	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
10:2 FTS	<4.6		4.6		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorododecanesulfonic acid (PFDoS)	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorohexadecanoic acid	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorooctadecanoic acid	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorobutanoic acid	<4.6		4.6		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
NMeFOSE	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
NMeFOSA	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
NEtFOSE	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
NEtFOSA	<4.6		4.6		ng/L		11/16/22 10:11	11/20/22 20:36	1
HFPODA	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
DONA	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
9Cl-PF3ONS	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:36	1
6:2 Fluorotelomer sulfonic acid	<4.6		4.6		ng/L		11/16/22 10:11	11/20/22 20:36	1
8:2 Fluorotelomer sulfonic acid	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 20:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*131*		*10 - 200*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
M2-8:2 FTS	*112*		*33 - 200*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
M2-6:2 FTS	*136*		*17 - 200*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
13C5 PFHxA	*123*		*24 - 179*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
13C4 PFHpA	*121*		*31 - 182*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
13C8 PFOA	*132*		*48 - 162*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
13C9 PFNA	*137*		*51 - 167*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
13C6 PFDA	*125*		*49 - 163*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
13C7 PFUnA	*135*		*34 - 174*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
13C2-PFDoDA	*135*		*17 - 176*	*11/16/22 10:11*	*11/20/22 20:36*	*1*
13C2 PFTeDA	*169*		*10 - 179*	*11/16/22 10:11*	*11/20/22 20:36*	*1*

Client Sample ID: EB-110222

Date Collected: 11/02/22 13:40
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-1

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	126		16 - 200	11/16/22 10:11	11/20/22 20:36	1
13C3 PFHxS	124		28 - 188	11/16/22 10:11	11/20/22 20:36	1
13C8 PFOS	137		51 - 159	11/16/22 10:11	11/20/22 20:36	1
d3-NMeFOSAA	160	cn	31 - 174	11/16/22 10:11	11/20/22 20:36	1
d5-NEtFOSAA	149		29 - 195	11/16/22 10:11	11/20/22 20:36	1
13C8 FOSA	116		10 - 168	11/16/22 10:11	11/20/22 20:36	1
13C4 PFBA	131		42 - 165	11/16/22 10:11	11/20/22 20:36	1
13C5 PFPeA	130		38 - 187	11/16/22 10:11	11/20/22 20:36	1
d7-N-MeFOSE-M	107		10 - 178	11/16/22 10:11	11/20/22 20:36	1
d3-NMePFOSA	72		10 - 155	11/16/22 10:11	11/20/22 20:36	1
d9-N-EtFOSE-M	107		10 - 177	11/16/22 10:11	11/20/22 20:36	1
d5-NEtPFOSA	111		10 - 159	11/16/22 10:11	11/20/22 20:36	1
13C3 HFPO-DA	113		17 - 185	11/16/22 10:11	11/20/22 20:36	1

Client Sample ID: EB-110222-2

Date Collected: 11/02/22 13:43
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-2

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorononanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
NEtFOSAA	<2.5		2.5		ng/L		11/16/22 10:11	11/20/22 20:47	1
NMeFOSAA	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
10:2 FTS	<4.2		4.2		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorobutanoic acid	<4.2		4.2		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
NMeFOSE	<2.5		2.5		ng/L		11/16/22 10:11	11/20/22 20:47	1
NMeFOSA	<2.5		2.5		ng/L		11/16/22 10:11	11/20/22 20:47	1
NEtFOSE	<2.5		2.5		ng/L		11/16/22 10:11	11/20/22 20:47	1
NEtFOSA	<4.2		4.2		ng/L		11/16/22 10:11	11/20/22 20:47	1
HFPODA	<2.5		2.5		ng/L		11/16/22 10:11	11/20/22 20:47	1
DONA	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1

Client Sample ID: EB-110222-2

Date Collected: 11/02/22 13:43
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-2

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/16/22 10:11	11/20/22 20:47	1
6:2 Fluorotelomer sulfonic acid	<4.2		4.2		ng/L		11/16/22 10:11	11/20/22 20:47	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		11/16/22 10:11	11/20/22 20:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*129*		*10 - 200*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
M2-8:2 FTS	*120*		*33 - 200*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
M2-6:2 FTS	*125*		*17 - 200*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C5 PFHxA	*109*		*24 - 179*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C4 PFHpA	*103*		*31 - 182*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C8 PFOA	*115*		*48 - 162*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C9 PFNA	*142*		*51 - 167*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C6 PFDA	*128*		*49 - 163*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C7 PFUnA	*134*		*34 - 174*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C2-PFDoDA	*133*		*17 - 176*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C2 PFTeDA	*180*	**5+ cn*	*10 - 179*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C3 PFBS	*123*		*16 - 200*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C3 PFHxS	*117*		*28 - 188*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C8 PFOS	*140*		*51 - 159*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
d3-NMeFOSAA	*157*	*cn*	*31 - 174*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
d5-NEtFOSAA	*153*		*29 - 195*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C8 FOSA	*123*		*10 - 168*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C4 PFBA	*128*		*42 - 165*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C5 PFPeA	*124*		*38 - 187*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
d7-N-MeFOSE-M	*119*		*10 - 178*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
d3-NMePFOSA	*78*		*10 - 155*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
d9-N-EtFOSE-M	*124*		*10 - 177*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
d5-NEtPFOSA	*113*		*10 - 159*	*11/16/22 10:11*	*11/20/22 20:47*	*1*
13C3 HFPO-DA	*100*		*17 - 185*	*11/16/22 10:11*	*11/20/22 20:47*	*1*

Client Sample ID: EB-110222-3

Date Collected: 11/02/22 13:46
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-3

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorononanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
NEtFOSAA	<2.7		2.7		ng/L		11/16/22 10:11	11/20/22 20:58	1

Client Sample ID: EB-110222-3
Date Collected: 11/02/22 13:46
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-3
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
10:2 FTS	<4.4		4.4		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorobutanoic acid	<4.4		4.4		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
NMeFOSE	<2.7		2.7		ng/L		11/16/22 10:11	11/20/22 20:58	1
NMeFOSA	<2.7		2.7		ng/L		11/16/22 10:11	11/20/22 20:58	1
NEtFOSE	<2.7		2.7		ng/L		11/16/22 10:11	11/20/22 20:58	1
NEtFOSA	<4.4		4.4		ng/L		11/16/22 10:11	11/20/22 20:58	1
HFPODA	<2.7		2.7		ng/L		11/16/22 10:11	11/20/22 20:58	1
DONA	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
9Cl-PF3ONS	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		11/16/22 10:11	11/20/22 20:58	1
6:2 Fluorotelomer sulfonic acid	<4.4		4.4		ng/L		11/16/22 10:11	11/20/22 20:58	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		11/16/22 10:11	11/20/22 20:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*119*		*10 - 200*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
M2-8:2 FTS	*109*		*33 - 200*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
M2-6:2 FTS	*118*		*17 - 200*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C5 PFHxA	*105*		*24 - 179*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C4 PFHpA	*113*		*31 - 182*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C8 PFOA	*117*		*48 - 162*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C9 PFNA	*137*		*51 - 167*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C6 PFDA	*123*		*49 - 163*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C7 PFUnA	*122*		*34 - 174*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C2-PFDoDA	*122*		*17 - 176*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C2 PFTeDA	*151*		*10 - 179*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C3 PFBS	*115*		*16 - 200*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C3 PFHxS	*118*		*28 - 188*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C8 PFOS	*129*		*51 - 159*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
d3-NMeFOSAA	*164*	*cn*	*31 - 174*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
d5-NEtFOSAA	*146*		*29 - 195*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C8 FOSA	*108*		*10 - 168*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C4 PFBA	*115*		*42 - 165*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
13C5 PFPeA	*121*		*38 - 187*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
d7-N-MeFOSE-M	*109*		*10 - 178*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
d3-NMePFOSA	*67*		*10 - 155*	*11/16/22 10:11*	*11/20/22 20:58*	*1*
d9-N-EtFOSE-M	*107*		*10 - 177*	*11/16/22 10:11*	*11/20/22 20:58*	*1*

Client Sample ID: EB-110222-3

Lab Sample ID: 410-104627-3

Date Collected: 11/02/22 13:46

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	102		10 - 159	11/16/22 10:11	11/20/22 20:58	1
13C3 HFPO-DA	107		17 - 185	11/16/22 10:11	11/20/22 20:58	1

Client Sample ID: EB-110222-4

Lab Sample ID: 410-104627-4

Date Collected: 11/02/22 13:48

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluoroheptanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorooctanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorononanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorodecanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorotridecanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorotetradecanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorobutanesulfonic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorohexanesulfonic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorooctanesulfonic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
NEtFOSAA	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 21:09	1
NMeFOSAA	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
10:2 FTS	<4.7		4.7		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluoropentanesulfonic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluoroheptanesulfonic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorononanesulfonic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorodecanesulfonic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorododecanesulfonic acid (PFDoS)	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorooctanesulfonamide	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorohexadecanoic acid	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorooctadecanoic acid	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorobutanoic acid	<4.7		4.7		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluoropentanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
NMeFOSE	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 21:09	1
NMeFOSA	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 21:09	1
NEtFOSE	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 21:09	1
NEtFOSA	<4.7		4.7		ng/L		11/16/22 10:11	11/20/22 21:09	1
HFPODA	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 21:09	1
DONA	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
9Cl-PF3ONS	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
11Cl-PF3OUdS	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluorododecanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
4:2 Fluorotelomer sulfonic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
Perfluoroundecanoic acid	<1.9		1.9		ng/L		11/16/22 10:11	11/20/22 21:09	1
6:2 Fluorotelomer sulfonic acid	<4.7		4.7		ng/L		11/16/22 10:11	11/20/22 21:09	1
8:2 Fluorotelomer sulfonic acid	<2.8		2.8		ng/L		11/16/22 10:11	11/20/22 21:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	119		10 - 200	11/16/22 10:11	11/20/22 21:09	1
M2-8:2 FTS	110		33 - 200	11/16/22 10:11	11/20/22 21:09	1
M2-6:2 FTS	116		17 - 200	11/16/22 10:11	11/20/22 21:09	1

Client Sample ID: EB-110222-4

Lab Sample ID: 410-104627-4

Date Collected: 11/02/22 13:48

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	109		24 - 179	11/16/22 10:11	11/20/22 21:09	1
13C4 PFHpA	116		31 - 182	11/16/22 10:11	11/20/22 21:09	1
13C8 PFOA	110		48 - 162	11/16/22 10:11	11/20/22 21:09	1
13C9 PFNA	132		51 - 167	11/16/22 10:11	11/20/22 21:09	1
13C6 PFDA	127		49 - 163	11/16/22 10:11	11/20/22 21:09	1
13C7 PFUnA	133		34 - 174	11/16/22 10:11	11/20/22 21:09	1
13C2-PFDoDA	136		17 - 176	11/16/22 10:11	11/20/22 21:09	1
13C2 PFTeDA	150		10 - 179	11/16/22 10:11	11/20/22 21:09	1
13C3 PFBS	118		16 - 200	11/16/22 10:11	11/20/22 21:09	1
13C3 PFHxS	117		28 - 188	11/16/22 10:11	11/20/22 21:09	1
13C8 PFOS	126		51 - 159	11/16/22 10:11	11/20/22 21:09	1
d3-NMeFOSAA	161	cn	31 - 174	11/16/22 10:11	11/20/22 21:09	1
d5-NEtFOSAA	151		29 - 195	11/16/22 10:11	11/20/22 21:09	1
13C8 FOSA	112		10 - 168	11/16/22 10:11	11/20/22 21:09	1
13C4 PFBA	120		42 - 165	11/16/22 10:11	11/20/22 21:09	1
13C5 PFPeA	123		38 - 187	11/16/22 10:11	11/20/22 21:09	1
d7-N-MeFOSE-M	109		10 - 178	11/16/22 10:11	11/20/22 21:09	1
d3-NMePFOSA	58		10 - 155	11/16/22 10:11	11/20/22 21:09	1
d9-N-EtFOSE-M	112		10 - 177	11/16/22 10:11	11/20/22 21:09	1
d5-NEtPFOSA	91		10 - 159	11/16/22 10:11	11/20/22 21:09	1
13C3 HFPO-DA	108		17 - 185	11/16/22 10:11	11/20/22 21:09	1

Client Sample ID: NOR-23-GW-76

Lab Sample ID: 410-104627-5

Date Collected: 11/02/22 14:55

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.9**	**cn**	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluoroheptanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorooctanoic acid	**2.5**	**cn**	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorononanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorodecanoic acid	**1.9**	**cn**	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorotridecanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorotetradecanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorobutanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorohexanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorooctanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
NEtFOSAA	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:20	1
NMeFOSAA	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
10:2 FTS	<4.4	cn	4.4		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluoropentanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluoroheptanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorononanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorodecanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorooctanesulfonamide	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorohexadecanoic acid	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorooctadecanoic acid	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:20	1

Client Sample ID: NOR-23-GW-76

Lab Sample ID: 410-104627-5

Date Collected: 11/02/22 14:55

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	<4.4	cn	4.4		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluoropentanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
NMeFOSE	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:20	1
NMeFOSA	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:20	1
NEtFOSE	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:20	1
NEtFOSA	<4.4	cn	4.4		ng/L		11/16/22 10:11	11/20/22 21:20	1
HFPODA	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:20	1
DONA	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
9Cl-PF3ONS	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
11Cl-PF3OUdS	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluorododecanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
4:2 Fluorotelomer sulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
Perfluoroundecanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:20	1
6:2 Fluorotelomer sulfonic acid	<4.4	cn	4.4		ng/L		11/16/22 10:11	11/20/22 21:20	1
8:2 Fluorotelomer sulfonic acid	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*159*	*cn*	*10 - 200*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
M2-8:2 FTS	*140*	*cn*	*33 - 200*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
M2-6:2 FTS	*138*	*cn*	*17 - 200*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C5 PFHxA	*112*	*cn*	*24 - 179*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C4 PFHpA	*112*	*cn*	*31 - 182*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C8 PFOA	*119*	*cn*	*48 - 162*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C9 PFNA	*129*	*cn*	*51 - 167*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C6 PFDA	*112*	*cn*	*49 - 163*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C7 PFUnA	*118*	*cn*	*34 - 174*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C2-PFDoDA	*116*	*cn*	*17 - 176*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C2 PFTeDA	*138*	*cn*	*10 - 179*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C3 PFBS	*123*	*cn*	*16 - 200*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C3 PFHxS	*121*	*cn*	*28 - 188*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C8 PFOS	*121*	*cn*	*51 - 159*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
d3-NMeFOSAA	*141*	*cn*	*31 - 174*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
d5-NEtFOSAA	*135*	*cn*	*29 - 195*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C8 FOSA	*102*	*cn*	*10 - 168*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C4 PFBA	*122*	*cn*	*42 - 165*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C5 PFPeA	*124*	*cn*	*38 - 187*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
d7-N-MeFOSE-M	*104*	*cn*	*10 - 178*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
d3-NMePFOSA	*66*	*cn*	*10 - 155*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
d9-N-EtFOSE-M	*94*	*cn*	*10 - 177*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
d5-NEtPFOSA	*91*	*cn*	*10 - 159*	*11/16/22 10:11*	*11/20/22 21:20*	*1*
13C3 HFPO-DA	*105*	*cn*	*17 - 185*	*11/16/22 10:11*	*11/20/22 21:20*	*1*

Client Sample ID: NOR-22-GW-81

Lab Sample ID: 410-104627-6

Date Collected: 11/02/22 16:25

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.6**	**cn**	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluoroheptanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorooctanoic acid	**2.8**	**cn**	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1

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

Job ID: 410-104627-1

Client Sample ID: NOR-22-GW-81

Date Collected: 11/02/22 16:25
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-6

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorodecanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorotridecanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorotetradecanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorobutanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorohexanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorooctanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
NEtFOSAA	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:31	1
NMeFOSAA	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
10:2 FTS	<4.4	cn	4.4		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluoropentanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluoroheptanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorononanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorodecanesulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorooctanesulfonamide	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorohexadecanoic acid	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorooctadecanoic acid	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorobutanoic acid	<4.4	cn	4.4		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluoropentanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
NMeFOSE	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:31	1
NMeFOSA	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:31	1
NEtFOSE	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:31	1
NEtFOSA	<4.4	cn	4.4		ng/L		11/16/22 10:11	11/20/22 21:31	1
HFPODA	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:31	1
DONA	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
9Cl-PF3ONS	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
11Cl-PF3OUdS	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluorododecanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
4:2 Fluorotelomer sulfonic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
Perfluoroundecanoic acid	<1.8	cn	1.8		ng/L		11/16/22 10:11	11/20/22 21:31	1
6:2 Fluorotelomer sulfonic acid	<4.4	cn	4.4		ng/L		11/16/22 10:11	11/20/22 21:31	1
8:2 Fluorotelomer sulfonic acid	<2.7	cn	2.7		ng/L		11/16/22 10:11	11/20/22 21:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*173*	*cn*	*10 - 200*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
M2-8:2 FTS	*137*	*cn*	*33 - 200*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
M2-6:2 FTS	*157*	*cn*	*17 - 200*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C5 PFHxA	*107*	*cn*	*24 - 179*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C4 PFHpA	*112*	*cn*	*31 - 182*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C8 PFOA	*121*	*cn*	*48 - 162*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C9 PFNA	*132*	*cn*	*51 - 167*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C6 PFDA	*114*	*cn*	*49 - 163*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C7 PFUnA	*118*	*cn*	*34 - 174*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C2-PFDoDA	*114*	*cn*	*17 - 176*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C2 PFTeDA	*123*	*cn*	*10 - 179*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C3 PFBS	*129*	*cn*	*16 - 200*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C3 PFHxS	*118*	*cn*	*28 - 188*	*11/16/22 10:11*	*11/20/22 21:31*	*1*
13C8 PFOS	*125*	*cn*	*51 - 159*	*11/16/22 10:11*	*11/20/22 21:31*	*1*

Client Sample ID: NOR-22-GW-81

Lab Sample ID: 410-104627-6

Date Collected: 11/02/22 16:25

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	140	cn	31 - 174	11/16/22 10:11	11/20/22 21:31	1
d5-NEtFOSAA	138	cn	29 - 195	11/16/22 10:11	11/20/22 21:31	1
13C8 FOSA	99	cn	10 - 168	11/16/22 10:11	11/20/22 21:31	1
13C4 PFBA	127	cn	42 - 165	11/16/22 10:11	11/20/22 21:31	1
13C5 PFPeA	128	cn	38 - 187	11/16/22 10:11	11/20/22 21:31	1
d7-N-MeFOSE-M	83	cn	10 - 178	11/16/22 10:11	11/20/22 21:31	1
d3-NMePFOSA	43	cn	10 - 155	11/16/22 10:11	11/20/22 21:31	1
d9-N-EtFOSE-M	86	cn	10 - 177	11/16/22 10:11	11/20/22 21:31	1
d5-NEtPFOSA	64	cn	10 - 159	11/16/22 10:11	11/20/22 21:31	1
13C3 HFPO-DA	98	cn	17 - 185	11/16/22 10:11	11/20/22 21:31	1

Client Sample ID: NOR-24-GW-71

Lab Sample ID: 410-104627-7

Date Collected: 11/03/22 10:05

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**8.3**	**cn**	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluoroheptanoic acid	**4.4**	**cn**	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorooctanoic acid	**18**	**cn**	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorononanoic acid	**5.1**	**cn**	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorodecanoic acid	**11**	**cn**	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorotridecanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorotetradecanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorobutanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorohexanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorooctanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
NEtFOSAA	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/28/22 17:53	1
NMeFOSAA	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
10:2 FTS	**19**	**cn**	4.4		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluoropentanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluoroheptanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorononanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorodecanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorooctanesulfonamide	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorohexadecanoic acid	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorooctadecanoic acid	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorobutanoic acid	<4.4	cn	4.4		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluoropentanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
NMeFOSE	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/28/22 17:53	1
NMeFOSA	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/28/22 17:53	1
NEtFOSE	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/28/22 17:53	1
NEtFOSA	<4.4	cn	4.4		ng/L		11/17/22 10:53	11/28/22 17:53	1
HFPODA	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/28/22 17:53	1
DONA	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
9Cl-PF3ONS	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
11Cl-PF3OUdS	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluorododecanoic acid	**5.1**	**cn**	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1

Client Sample ID: NOR-24-GW-71

Lab Sample ID: 410-104627-7

Date Collected: 11/03/22 10:05

Matrix: Water

Date Received: 11/05/22 10:55

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	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
Perfluoroundecanoic acid	**4.4**	**cn**	1.8		ng/L		11/17/22 10:53	11/28/22 17:53	1
6:2 Fluorotelomer sulfonic acid	**6.9**	**cn**	4.4		ng/L		11/17/22 10:53	11/28/22 17:53	1
8:2 Fluorotelomer sulfonic acid	**11**	**cn**	2.6		ng/L		11/17/22 10:53	11/28/22 17:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*179*	*cn*	*10 - 200*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
M2-8:2 FTS	*132*	*cn*	*33 - 200*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
M2-6:2 FTS	*147*	*cn*	*17 - 200*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C5 PFHxA	*105*	*cn*	*24 - 179*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C4 PFHpA	*106*	*cn*	*31 - 182*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C8 PFOA	*107*	*cn*	*48 - 162*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C9 PFNA	*118*	*cn*	*51 - 167*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C6 PFDA	*117*	*cn*	*49 - 163*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C7 PFUnA	*107*	*cn*	*34 - 174*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C2-PFDoDA	*112*	*cn*	*17 - 176*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C2 PFTeDA	*93*	*cn*	*10 - 179*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C3 PFBS	*136*	*cn*	*16 - 200*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C3 PFHxS	*123*	*cn*	*28 - 188*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C8 PFOS	*125*	*cn*	*51 - 159*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
d3-NMeFOSAA	*123*	*cn*	*31 - 174*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
d5-NEtFOSAA	*118*	*cn*	*29 - 195*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C8 FOSA	*92*	*cn*	*10 - 168*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C4 PFBA	*119*	*cn*	*42 - 165*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C5 PFPeA	*132*	*cn*	*38 - 187*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
d7-N-MeFOSE-M	*66*	*cn*	*10 - 178*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
d3-NMePFOSA	*56*	*cn*	*10 - 155*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
d9-N-EtFOSE-M	*67*	*cn*	*10 - 177*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
d5-NEtPFOSA	*57*	*cn*	*10 - 159*	*11/17/22 10:53*	*11/28/22 17:53*	*1*
13C3 HFPO-DA	*92*	*cn*	*17 - 185*	*11/17/22 10:53*	*11/28/22 17:53*	*1*

Client Sample ID: NOR-25-GW-56

Lab Sample ID: 410-104627-8

Date Collected: 11/03/22 11:30

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**140**	**cn**	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluoroheptanoic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorooctanoic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorononanoic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorodecanoic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorotridecanoic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorotetradecanoic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorobutanesulfonic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorohexanesulfonic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorooctanesulfonic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
NEtFOSAA	<2.5	cn	2.5		ng/L		11/17/22 10:53	11/28/22 18:05	1
NMeFOSAA	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
10:2 FTS	<4.2	cn	4.2		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluoropentanesulfonic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1

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

Job ID: 410-104627-1

Client Sample ID: NOR-25-GW-56

Date Collected: 11/03/22 11:30
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-8

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorononanesulfonic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorodecanesulfonic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5	cn	2.5		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorooctanesulfonamide	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorohexadecanoic acid	<2.5	cn	2.5		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorooctadecanoic acid	<2.5	cn	2.5		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorobutanoic acid	**43**	**cn**	4.2		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluoropentanoic acid	**310**	**cn**	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
NMeFOSE	<2.5	cn	2.5		ng/L		11/17/22 10:53	11/28/22 18:05	1
NMeFOSA	<2.5	cn	2.5		ng/L		11/17/22 10:53	11/28/22 18:05	1
NEtFOSE	<2.5	cn	2.5		ng/L		11/17/22 10:53	11/28/22 18:05	1
NEtFOSA	<4.2	cn	4.2		ng/L		11/17/22 10:53	11/28/22 18:05	1
HFPODA	<2.5	cn	2.5		ng/L		11/17/22 10:53	11/28/22 18:05	1
DONA	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
9Cl-PF3ONS	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
11Cl-PF3OUdS	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluorododecanoic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
4:2 Fluorotelomer sulfonic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
Perfluoroundecanoic acid	<1.7	cn	1.7		ng/L		11/17/22 10:53	11/28/22 18:05	1
6:2 Fluorotelomer sulfonic acid	<4.2	cn	4.2		ng/L		11/17/22 10:53	11/28/22 18:05	1
8:2 Fluorotelomer sulfonic acid	<2.5	cn	2.5		ng/L		11/17/22 10:53	11/28/22 18:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*	*cn*	*10 - 200*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
M2-8:2 FTS	*113*	*cn*	*33 - 200*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
M2-6:2 FTS	*130*	*cn*	*17 - 200*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C5 PFHxA	*96*	*cn*	*24 - 179*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C4 PFHpA	*110*	*cn*	*31 - 182*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C8 PFOA	*105*	*cn*	*48 - 162*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C9 PFNA	*109*	*cn*	*51 - 167*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C6 PFDA	*104*	*cn*	*49 - 163*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C7 PFUnA	*102*	*cn*	*34 - 174*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C2-PFDoDA	*96*	*cn*	*17 - 176*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C2 PFTeDA	*96*	*cn*	*10 - 179*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C3 PFBS	*118*	*cn*	*16 - 200*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C3 PFHxS	*117*	*cn*	*28 - 188*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C8 PFOS	*115*	*cn*	*51 - 159*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
d3-NMeFOSAA	*110*	*cn*	*31 - 174*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
d5-NEtFOSAA	*108*	*cn*	*29 - 195*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C8 FOSA	*81*	*cn*	*10 - 168*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C4 PFBA	*107*	*cn*	*42 - 165*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C5 PFPeA	*95*	*cn*	*38 - 187*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
d7-N-MeFOSE-M	*72*	*cn*	*10 - 178*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
d3-NMePFOSA	*56*	*cn*	*10 - 155*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
d9-N-EtFOSE-M	*69*	*cn*	*10 - 177*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
d5-NEtPFOSA	*58*	*cn*	*10 - 159*	*11/17/22 10:53*	*11/28/22 18:05*	*1*
13C3 HFPO-DA	*89*	*cn*	*17 - 185*	*11/17/22 10:53*	*11/28/22 18:05*	*1*

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

Job ID: 410-104627-1

Client Sample ID: SRE-19-GW-51

Date Collected: 11/03/22 13:40
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-9

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluoroheptanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorooctanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorononanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorodecanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorotridecanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorotetradecanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorobutanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorohexanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorooctanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
NEtFOSAA	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/29/22 08:14	1
NMeFOSAA	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
10:2 FTS	<4.4	cn	4.4		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluoropentanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluoroheptanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorononanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorodecanesulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorooctanesulfonamide	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorohexadecanoic acid	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorooctadecanoic acid	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorobutanoic acid	<4.4	cn	4.4		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluoropentanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
NMeFOSE	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/29/22 08:14	1
NMeFOSA	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/29/22 08:14	1
NEtFOSE	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/29/22 08:14	1
NEtFOSA	<4.4	cn	4.4		ng/L		11/17/22 10:53	11/29/22 08:14	1
HFPODA	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/29/22 08:14	1
DONA	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
9Cl-PF3ONS	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
11Cl-PF3OUdS	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluorododecanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
4:2 Fluorotelomer sulfonic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
Perfluoroundecanoic acid	<1.8	cn	1.8		ng/L		11/17/22 10:53	11/29/22 08:14	1
6:2 Fluorotelomer sulfonic acid	<4.4	cn	4.4		ng/L		11/17/22 10:53	11/29/22 08:14	1
8:2 Fluorotelomer sulfonic acid	<2.6	cn	2.6		ng/L		11/17/22 10:53	11/29/22 08:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*143*	*cn*	*10 - 200*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
M2-8:2 FTS	*120*	*cn*	*33 - 200*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
M2-6:2 FTS	*136*	*cn*	*17 - 200*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
13C5 PFHxA	*98*	*cn*	*24 - 179*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
13C4 PFHpA	*105*	*cn*	*31 - 182*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
13C8 PFOA	*105*	*cn*	*48 - 162*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
13C9 PFNA	*109*	*cn*	*51 - 167*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
13C6 PFDA	*106*	*cn*	*49 - 163*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
13C7 PFUnA	*106*	*cn*	*34 - 174*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
13C2-PFDoDA	*95*	*cn*	*17 - 176*	*11/17/22 10:53*	*11/29/22 08:14*	*1*
13C2 PFTeDA	*102*	*cn*	*10 - 179*	*11/17/22 10:53*	*11/29/22 08:14*	*1*

Client Sample ID: SRE-19-GW-51

Lab Sample ID: 410-104627-9

Date Collected: 11/03/22 13:40

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	146	cn	16 - 200	11/17/22 10:53	11/29/22 08:14	1
13C3 PFHxS	110	cn	28 - 188	11/17/22 10:53	11/29/22 08:14	1
13C8 PFOS	119	cn	51 - 159	11/17/22 10:53	11/29/22 08:14	1
d3-NMeFOSAA	116	cn	31 - 174	11/17/22 10:53	11/29/22 08:14	1
d5-NEtFOSAA	118	cn	29 - 195	11/17/22 10:53	11/29/22 08:14	1
13C8 FOSA	96	cn	10 - 168	11/17/22 10:53	11/29/22 08:14	1
13C4 PFBA	116	cn	42 - 165	11/17/22 10:53	11/29/22 08:14	1
13C5 PFPeA	128	cn	38 - 187	11/17/22 10:53	11/29/22 08:14	1
d7-N-MeFOSE-M	81	cn	10 - 178	11/17/22 10:53	11/29/22 08:14	1
d3-NMePFOSA	68	cn	10 - 155	11/17/22 10:53	11/29/22 08:14	1
d9-N-EtFOSE-M	84	cn	10 - 177	11/17/22 10:53	11/29/22 08:14	1
d5-NEtPFOSA	69	cn	10 - 159	11/17/22 10:53	11/29/22 08:14	1
13C3 HFPO-DA	85	cn	17 - 185	11/17/22 10:53	11/29/22 08:14	1

Client Sample ID: SRE-20-GW-51

Lab Sample ID: 410-104627-10

Date Collected: 11/03/22 15:10

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**38**		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluoroheptanoic acid	**7.7**		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorooctanoic acid	**7.9**		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorononanoic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorobutanesulfonic acid	**2.3**		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorohexanesulfonic acid	**5.2**		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorooctanesulfonic acid	**6.4**		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
NEtFOSAA	<2.7		2.7		ng/L		11/17/22 10:53	11/29/22 08:25	1
NMeFOSAA	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
10:2 FTS	<4.4		4.4		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorobutanoic acid	**16**		4.4		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluoropentanoic acid	**63**		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
NMeFOSE	<2.7		2.7		ng/L		11/17/22 10:53	11/29/22 08:25	1
NMeFOSA	<2.7		2.7		ng/L		11/17/22 10:53	11/29/22 08:25	1
NEtFOSE	<2.7		2.7		ng/L		11/17/22 10:53	11/29/22 08:25	1
NEtFOSA	<4.4		4.4		ng/L		11/17/22 10:53	11/29/22 08:25	1
HFPODA	<2.7		2.7		ng/L		11/17/22 10:53	11/29/22 08:25	1
DONA	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1

Client Sample ID: SRE-20-GW-51

Lab Sample ID: 410-104627-10

Date Collected: 11/03/22 15:10

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		11/17/22 10:53	11/29/22 08:25	1
6:2 Fluorotelomer sulfonic acid	<4.4		4.4		ng/L		11/17/22 10:53	11/29/22 08:25	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		11/17/22 10:53	11/29/22 08:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*180*		*10 - 200*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
M2-8:2 FTS	*142*		*33 - 200*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
M2-6:2 FTS	*164*		*17 - 200*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C5 PFHxA	*96*		*24 - 179*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C4 PFHpA	*106*		*31 - 182*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C8 PFOA	*112*		*48 - 162*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C9 PFNA	*112*		*51 - 167*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C6 PFDA	*109*		*49 - 163*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C7 PFUnA	*119*		*34 - 174*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C2-PFDoDA	*115*		*17 - 176*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C2 PFTeDA	*126*		*10 - 179*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C3 PFBS	*145*		*16 - 200*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C3 PFHxS	*118*		*28 - 188*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C8 PFOS	*121*		*51 - 159*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
d3-NMeFOSAA	*137*		*31 - 174*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
d5-NEtFOSAA	*139*		*29 - 195*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C8 FOSA	*112*		*10 - 168*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C4 PFBA	*113*		*42 - 165*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C5 PFPeA	*122*		*38 - 187*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
d7-N-MeFOSE-M	*103*		*10 - 178*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
d3-NMePFOSA	*88*		*10 - 155*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
d9-N-EtFOSE-M	*103*		*10 - 177*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
d5-NEtPFOSA	*89*		*10 - 159*	*11/17/22 10:53*	*11/29/22 08:25*	*1*
13C3 HFPO-DA	*82*		*17 - 185*	*11/17/22 10:53*	*11/29/22 08:25*	*1*

Client Sample ID: EB-110322

Lab Sample ID: 410-104627-11

Date Collected: 11/03/22 15:45

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorononanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
NEtFOSAA	<2.5		2.5		ng/L		11/17/22 10:53	11/29/22 08:36	1

Client Sample ID: EB-110322
Date Collected: 11/03/22 15:45
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-11
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
10:2 FTS	<4.2		4.2		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorobutanoic acid	<4.2		4.2		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
NMeFOSE	<2.5		2.5		ng/L		11/17/22 10:53	11/29/22 08:36	1
NMeFOSA	<2.5		2.5		ng/L		11/17/22 10:53	11/29/22 08:36	1
NEtFOSE	<2.5		2.5		ng/L		11/17/22 10:53	11/29/22 08:36	1
NEtFOSA	<4.2		4.2		ng/L		11/17/22 10:53	11/29/22 08:36	1
HFPODA	<2.5		2.5		ng/L		11/17/22 10:53	11/29/22 08:36	1
DONA	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
9Cl-PF3ONS	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/17/22 10:53	11/29/22 08:36	1
6:2 Fluorotelomer sulfonic acid	<4.2		4.2		ng/L		11/17/22 10:53	11/29/22 08:36	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		11/17/22 10:53	11/29/22 08:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*121*		*10 - 200*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
M2-8:2 FTS	*127*		*33 - 200*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
M2-6:2 FTS	*127*		*17 - 200*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C5 PFHxA	*106*		*24 - 179*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C4 PFHpA	*115*		*31 - 182*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C8 PFOA	*110*		*48 - 162*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C9 PFNA	*128*		*51 - 167*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C6 PFDA	*118*		*49 - 163*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C7 PFUnA	*131*		*34 - 174*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C2-PFDoDA	*130*		*17 - 176*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C2 PFTeDA	*173*		*10 - 179*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C3 PFBS	*131*		*16 - 200*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C3 PFHxS	*115*		*28 - 188*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C8 PFOS	*130*		*51 - 159*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
d3-NMeFOSAA	*145*		*31 - 174*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
d5-NEtFOSAA	*161*		*29 - 195*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C8 FOSA	*120*		*10 - 168*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C4 PFBA	*121*		*42 - 165*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
13C5 PFPeA	*121*		*38 - 187*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
d7-N-MeFOSE-M	*109*		*10 - 178*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
d3-NMePFOSA	*104*		*10 - 155*	*11/17/22 10:53*	*11/29/22 08:36*	*1*
d9-N-EtFOSE-M	*106*		*10 - 177*	*11/17/22 10:53*	*11/29/22 08:36*	*1*

Client Sample ID: EB-110322

Lab Sample ID: 410-104627-11

Date Collected: 11/03/22 15:45

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	109		10 - 159	11/17/22 10:53	11/29/22 08:36	1
13C3 HFPO-DA	94		17 - 185	11/17/22 10:53	11/29/22 08:36	1

Client Sample ID: RW15-10-GW-91

Lab Sample ID: 410-104627-12

Date Collected: 11/04/22 09:45

Matrix: Water

Date Received: 11/05/22 10:55

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.7**		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorooctanoic acid	**2.0**		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorononanoic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorobutanesulfonic acid	**8.6**		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorohexanesulfonic acid	**5.7**		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorooctanesulfonic acid	**32**		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
NEtFOSAA	<2.8		2.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
NMeFOSAA	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
10:2 FTS	<4.6		4.6		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluoropentanesulfonic acid	**2.1**		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorododecanesulfonic acid (PFDoS)	<2.8		2.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorohexadecanoic acid	<2.8		2.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorooctadecanoic acid	<2.8		2.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorobutanoic acid	<4.6		4.6		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluoropentanoic acid	**2.0**		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
NMeFOSE	<2.8		2.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
NMeFOSA	<2.8		2.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
NEtFOSE	<2.8		2.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
NEtFOSA	<4.6		4.6		ng/L		11/18/22 07:37	11/23/22 23:09	1
HFPODA	<2.8		2.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
DONA	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
9Cl-PF3ONS	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		11/18/22 07:37	11/23/22 23:09	1
6:2 Fluorotelomer sulfonic acid	<4.6		4.6		ng/L		11/18/22 07:37	11/23/22 23:09	1
8:2 Fluorotelomer sulfonic acid	<2.8		2.8		ng/L		11/18/22 07:37	11/23/22 23:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	133		10 - 200	11/18/22 07:37	11/23/22 23:09	1
M2-8:2 FTS	104		33 - 200	11/18/22 07:37	11/23/22 23:09	1
M2-6:2 FTS	105		17 - 200	11/18/22 07:37	11/23/22 23:09	1

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

Job ID: 410-104627-1

Client Sample ID: RW15-10-GW-91
Date Collected: 11/04/22 09:45
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-12
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	91		24 - 179	11/18/22 07:37	11/23/22 23:09	1
13C4 PFHpA	94		31 - 182	11/18/22 07:37	11/23/22 23:09	1
13C8 PFOA	94		48 - 162	11/18/22 07:37	11/23/22 23:09	1
13C9 PFNA	106		51 - 167	11/18/22 07:37	11/23/22 23:09	1
13C6 PFDA	101		49 - 163	11/18/22 07:37	11/23/22 23:09	1
13C7 PFUnA	99		34 - 174	11/18/22 07:37	11/23/22 23:09	1
13C2-PFDoDA	89		17 - 176	11/18/22 07:37	11/23/22 23:09	1
13C2 PFTeDA	101		10 - 179	11/18/22 07:37	11/23/22 23:09	1
13C3 PFBS	116		16 - 200	11/18/22 07:37	11/23/22 23:09	1
13C3 PFHxS	94		28 - 188	11/18/22 07:37	11/23/22 23:09	1
13C8 PFOS	105		51 - 159	11/18/22 07:37	11/23/22 23:09	1
d3-NMeFOSAA	126		31 - 174	11/18/22 07:37	11/23/22 23:09	1
d5-NEtFOSAA	127	cn	29 - 195	11/18/22 07:37	11/23/22 23:09	1
13C8 FOSA	92		10 - 168	11/18/22 07:37	11/23/22 23:09	1
13C4 PFBA	97		42 - 165	11/18/22 07:37	11/23/22 23:09	1
13C5 PFPeA	97		38 - 187	11/18/22 07:37	11/23/22 23:09	1
d7-N-MeFOSE-M	74		10 - 178	11/18/22 07:37	11/23/22 23:09	1
d3-NMePFOSA	68		10 - 155	11/18/22 07:37	11/23/22 23:09	1
d9-N-EtFOSE-M	78		10 - 177	11/18/22 07:37	11/23/22 23:09	1
d5-NEtPFOSA	74		10 - 159	11/18/22 07:37	11/23/22 23:09	1
13C3 HFPO-DA	83		17 - 185	11/18/22 07:37	11/23/22 23:09	1

Isotope Dilution Summary

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

Job ID: 410-104627-1

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 (10-200)	M282FTS (33-200)	M262FTS (17-200)	13C5PHA (24-179)	C4PFHA (31-182)	C8PFOA (48-162)	C9PFNA (51-167)	C6PFDA (49-163)
410-104627-1	EB-110222	131	112	136	123	121	132	137	125
410-104627-2	EB-110222-2	129	120	125	109	103	115	142	128
410-104627-3	EB-110222-3	119	109	118	105	113	117	137	123
410-104627-4	EB-110222-4	119	110	116	109	116	110	132	127
410-104627-5	NOR-23-GW-76	159 cn	140 cn	138 cn	112 cn	112 cn	119 cn	129 cn	112 cn
410-104627-6	NOR-22-GW-81	173 cn	137 cn	157 cn	107 cn	112 cn	121 cn	132 cn	114 cn
410-104627-7	NOR-24-GW-71	179 cn	132 cn	147 cn	105 cn	106 cn	107 cn	118 cn	117 cn
410-104627-8	NOR-25-GW-56	145 cn	113 cn	130 cn	96 cn	110 cn	105 cn	109 cn	104 cn
410-104627-9	SRE-19-GW-51	143 cn	120 cn	136 cn	98 cn	105 cn	105 cn	109 cn	106 cn
410-104627-10	SRE-20-GW-51	180	142	164	96	106	112	112	109
410-104627-11	EB-110322	121	127	127	106	115	110	128	118
410-104627-12	RW15-10-GW-91	133	104	105	91	94	94	106	101
LCS 410-318161/2-A	Lab Control Sample	124	109	129	112	118	123	136	122
LCS 410-318643/2-A	Lab Control Sample	108	109	109	102	104	100	109	103
LCS 410-318947/3-A	Lab Control Sample	89	95	91	101	102	98	107	95
MB 410-318161/1-A	Method Blank	128	121	112	112	122	120	134	126
MB 410-318643/1-A	Method Blank	124	127	118	109	116	114	125	131
MB 410-318947/1-A	Method Blank	78	81	80	89	90	82	98	83

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-104627-1	EB-110222	135	135	169	126	124	137	160 cn	149
410-104627-2	EB-110222-2	134	133	180 *5+ cn	123	117	140	157 cn	153
410-104627-3	EB-110222-3	122	122	151	115	118	129	164 cn	146
410-104627-4	EB-110222-4	133	136	150	118	117	126	161 cn	151
410-104627-5	NOR-23-GW-76	118 cn	116 cn	138 cn	123 cn	121 cn	121 cn	141 cn	135 cn
410-104627-6	NOR-22-GW-81	118 cn	114 cn	123 cn	129 cn	118 cn	125 cn	140 cn	138 cn
410-104627-7	NOR-24-GW-71	107 cn	112 cn	93 cn	136 cn	123 cn	125 cn	123 cn	118 cn
410-104627-8	NOR-25-GW-56	102 cn	96 cn	96 cn	118 cn	117 cn	115 cn	110 cn	108 cn
410-104627-9	SRE-19-GW-51	106 cn	95 cn	102 cn	146 cn	110 cn	119 cn	116 cn	118 cn
410-104627-10	SRE-20-GW-51	119	115	126	145	118	121	137	139
410-104627-11	EB-110322	131	130	173	131	115	130	145	161
410-104627-12	RW15-10-GW-91	99	89	101	116	94	105	126	127 cn
LCS 410-318161/2-A	Lab Control Sample	129	132	148	125	126	132	157	141
LCS 410-318643/2-A	Lab Control Sample	103	99	115	113	105	110	122	114
LCS 410-318947/3-A	Lab Control Sample	83	85	93	94	99	106	110	114
MB 410-318161/1-A	Method Blank	135	140	150	120	126	133	162	151
MB 410-318643/1-A	Method Blank	134	131	144	117	112	126	159	155
MB 410-318947/1-A	Method Blank	78	74	91	83	84	95	102	106

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
410-104627-1	EB-110222	116	131	130	107	72	107	111	113
410-104627-2	EB-110222-2	123	128	124	119	78	124	113	100
410-104627-3	EB-110222-3	108	115	121	109	67	107	102	107
410-104627-4	EB-110222-4	112	120	123	109	58	112	91	108
410-104627-5	NOR-23-GW-76	102 cn	122 cn	124 cn	104 cn	66 cn	94 cn	91 cn	105 cn
410-104627-6	NOR-22-GW-81	99 cn	127 cn	128 cn	83 cn	43 cn	86 cn	64 cn	98 cn

Isotope Dilution Summary

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

Job ID: 410-104627-1

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 (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
410-104627-7	NOR-24-GW-71	92 cn	119 cn	132 cn	66 cn	56 cn	67 cn	57 cn	92 cn
410-104627-8	NOR-25-GW-56	81 cn	107 cn	95 cn	72 cn	56 cn	69 cn	58 cn	89 cn
410-104627-9	SRE-19-GW-51	96 cn	116 cn	128 cn	81 cn	68 cn	84 cn	69 cn	85 cn
410-104627-10	SRE-20-GW-51	112	113	122	103	88	103	89	82
410-104627-11	EB-110322	120	121	121	109	104	106	109	94
410-104627-12	RW15-10-GW-91	92	97	97	74	68	78	74	83
LCS 410-318161/2-A	Lab Control Sample	118	121	130	111	74	109	109	108
LCS 410-318643/2-A	Lab Control Sample	90	103	107	97	67	91	66	97
LCS 410-318947/3-A	Lab Control Sample	80	100	96	78	71	76	74	93
MB 410-318161/1-A	Method Blank	120	123	126	115	71	112	99	107
MB 410-318643/1-A	Method Blank	115	117	111	119	93	118	96	108
MB 410-318947/1-A	Method Blank	75	84	83	67	64	66	73	85

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

Lab Sample ID: MB 410-318161/1-A
Matrix: Water
Analysis Batch: 319466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorononanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
NEtFOSAA	<3.0		3.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
NMeFOSAA	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
10:2 FTS	<5.0		5.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
NMeFOSE	<3.0		3.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
NMeFOSA	<3.0		3.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
NEtFOSE	<3.0		3.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
NEtFOSA	<5.0		5.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
HFPODA	<3.0		3.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
DONA	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
9Cl-PF3ONS	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		11/16/22 10:11	11/20/22 17:05	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		11/16/22 10:11	11/20/22 17:05	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*128*		*10 - 200*	*11/16/22 10:11*	*11/20/22 17:05*	*1*
M2-8:2 FTS	*121*		*33 - 200*	*11/16/22 10:11*	*11/20/22 17:05*	*1*
M2-6:2 FTS	*112*		*17 - 200*	*11/16/22 10:11*	*11/20/22 17:05*	*1*
13C5 PFHxA	*112*		*24 - 179*	*11/16/22 10:11*	*11/20/22 17:05*	*1*
13C4 PFHpA	*122*		*31 - 182*	*11/16/22 10:11*	*11/20/22 17:05*	*1*
13C8 PFOA	*120*		*48 - 162*	*11/16/22 10:11*	*11/20/22 17:05*	*1*
13C9 PFNA	*134*		*51 - 167*	*11/16/22 10:11*	*11/20/22 17:05*	*1*
13C6 PFDA	*126*		*49 - 163*	*11/16/22 10:11*	*11/20/22 17:05*	*1*
13C7 PFUnA	*135*		*34 - 174*	*11/16/22 10:11*	*11/20/22 17:05*	*1*
13C2-PFDoDA	*140*		*17 - 176*	*11/16/22 10:11*	*11/20/22 17:05*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-318161/1-A
Matrix: Water
Analysis Batch: 319466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318161

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	150		10 - 179	11/16/22 10:11	11/20/22 17:05	1
13C3 PFBS	120		16 - 200	11/16/22 10:11	11/20/22 17:05	1
13C3 PFHxS	126		28 - 188	11/16/22 10:11	11/20/22 17:05	1
13C8 PFOS	133		51 - 159	11/16/22 10:11	11/20/22 17:05	1
d3-NMeFOSAA	162		31 - 174	11/16/22 10:11	11/20/22 17:05	1
d5-NEtFOSAA	151		29 - 195	11/16/22 10:11	11/20/22 17:05	1
13C8 FOSA	120		10 - 168	11/16/22 10:11	11/20/22 17:05	1
13C4 PFBA	123		42 - 165	11/16/22 10:11	11/20/22 17:05	1
13C5 PFPeA	126		38 - 187	11/16/22 10:11	11/20/22 17:05	1
d7-N-MeFOSE-M	115		10 - 178	11/16/22 10:11	11/20/22 17:05	1
d3-NMePFOSA	71		10 - 155	11/16/22 10:11	11/20/22 17:05	1
d9-N-EtFOSE-M	112		10 - 177	11/16/22 10:11	11/20/22 17:05	1
d5-NEtPFOSA	99		10 - 159	11/16/22 10:11	11/20/22 17:05	1
13C3 HFPO-DA	107		17 - 185	11/16/22 10:11	11/20/22 17:05	1

Lab Sample ID: LCS 410-318161/2-A
Matrix: Water
Analysis Batch: 319466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	27.7		ng/L		108	58 - 139
Perfluoroheptanoic acid	25.6	25.8		ng/L		101	59 - 145
Perfluorooctanoic acid	25.6	26.3		ng/L		103	51 - 145
Perfluorononanoic acid	25.6	25.8		ng/L		101	61 - 139
Perfluorodecanoic acid	25.6	28.6		ng/L		112	56 - 138
Perfluorotridecanoic acid	25.6	24.3		ng/L		95	58 - 146
Perfluorotetradecanoic acid	25.6	28.2		ng/L		110	62 - 139
Perfluorobutanesulfonic acid	22.7	23.8		ng/L		105	53 - 138
Perfluorohexanesulfonic acid	23.3	22.5		ng/L		96	58 - 134
Perfluorooctanesulfonic acid	23.7	24.3		ng/L		103	45 - 150
NEtFOSAA	25.6	26.2		ng/L		102	55 - 134
NMeFOSAA	25.6	24.6		ng/L		96	59 - 140
10:2 FTS	24.7	29.0		ng/L		118	50 - 146
Perfluoropentanesulfonic acid	24.0	26.7		ng/L		111	55 - 140
Perfluoroheptanesulfonic acid	24.4	24.5		ng/L		100	56 - 140
Perfluorononanesulfonic acid	24.6	22.2		ng/L		90	59 - 136
Perfluorodecanesulfonic acid	24.7	22.0		ng/L		89	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	27.2		ng/L		110	48 - 138
Perfluorooctanesulfonamide	25.6	26.7		ng/L		104	43 - 167
Perfluorohexadecanoic acid	25.6	21.6		ng/L		84	41 - 158
Perfluorooctadecanoic acid	25.6	19.4		ng/L		76	29 - 172
Perfluorobutanoic acid	25.6	25.9		ng/L		101	59 - 136
Perfluoropentanoic acid	25.6	25.5		ng/L		100	57 - 141
NMeFOSE	25.6	27.1		ng/L		106	55 - 144
NMeFOSA	25.6	36.3		ng/L		142	64 - 143
NEtFOSE	25.6	26.3		ng/L		103	60 - 136
NEtFOSA	25.6	26.2		ng/L		102	61 - 134
HFPODA	25.6	25.8		ng/L		101	50 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-318161/2-A
Matrix: Water
Analysis Batch: 319466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	24.2	25.5		ng/L		106	55 - 143
9Cl-PF3ONS	23.8	24.3		ng/L		102	59 - 135
11Cl-PF3OUdS	23.8	22.1		ng/L		93	53 - 139
Perfluorododecanoic acid	25.6	26.8		ng/L		105	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	24.4		ng/L		102	55 - 139
Perfluoroundecanoic acid	25.6	25.2		ng/L		98	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	22.3		ng/L		92	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	25.9		ng/L		106	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*124*		*10 - 200*
M2-8:2 FTS	*109*		*33 - 200*
M2-6:2 FTS	*129*		*17 - 200*
13C5 PFHxA	*112*		*24 - 179*
13C4 PFHpA	*118*		*31 - 182*
13C8 PFOA	*123*		*48 - 162*
13C9 PFNA	*136*		*51 - 167*
13C6 PFDA	*122*		*49 - 163*
13C7 PFUnA	*129*		*34 - 174*
13C2-PFDoDA	*132*		*17 - 176*
13C2 PFTeDA	*148*		*10 - 179*
13C3 PFBS	*125*		*16 - 200*
13C3 PFHxS	*126*		*28 - 188*
13C8 PFOS	*132*		*51 - 159*
d3-NMeFOSAA	*157*		*31 - 174*
d5-NEtFOSAA	*141*		*29 - 195*
13C8 FOSA	*118*		*10 - 168*
13C4 PFBA	*121*		*42 - 165*
13C5 PFPeA	*130*		*38 - 187*
d7-N-MeFOSE-M	*111*		*10 - 178*
d3-NMePFOSA	*74*		*10 - 155*
d9-N-EtFOSE-M	*109*		*10 - 177*
d5-NEtPFOSA	*109*		*10 - 159*
13C3 HFPO-DA	*108*		*17 - 185*

Lab Sample ID: MB 410-318643/1-A
Matrix: Water
Analysis Batch: 321275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorononanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-318643/1-A
Matrix: Water
Analysis Batch: 321275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
NEtFOSAA	<3.0		3.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
NMeFOSAA	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
10:2 FTS	<5.0		5.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
NMeFOSE	<3.0		3.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
NMeFOSA	<3.0		3.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
NEtFOSE	<3.0		3.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
NEtFOSA	<5.0		5.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
HFPODA	<3.0		3.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
DONA	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
9Cl-PF3ONS	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		11/17/22 10:53	11/28/22 15:07	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		11/17/22 10:53	11/28/22 15:07	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*124*		*10 - 200*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
M2-8:2 FTS	*127*		*33 - 200*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
M2-6:2 FTS	*118*		*17 - 200*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C5 PFHxA	*109*		*24 - 179*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C4 PFHpA	*116*		*31 - 182*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C8 PFOA	*114*		*48 - 162*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C9 PFNA	*125*		*51 - 167*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C6 PFDA	*131*		*49 - 163*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C7 PFUnA	*134*		*34 - 174*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C2-PFDoDA	*131*		*17 - 176*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C2 PFTeDA	*144*		*10 - 179*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C3 PFBS	*117*		*16 - 200*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C3 PFHxS	*112*		*28 - 188*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C8 PFOS	*126*		*51 - 159*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
d3-NMeFOSAA	*159*		*31 - 174*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
d5-NEtFOSAA	*155*		*29 - 195*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C8 FOSA	*115*		*10 - 168*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C4 PFBA	*117*		*42 - 165*	*11/17/22 10:53*	*11/28/22 15:07*	*1*
13C5 PFPeA	*111*		*38 - 187*	*11/17/22 10:53*	*11/28/22 15:07*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-318643/1-A
Matrix: Water
Analysis Batch: 321275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318643

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	119		10 - 178	11/17/22 10:53	11/28/22 15:07	1
d3-NMePFOSA	93		10 - 155	11/17/22 10:53	11/28/22 15:07	1
d9-N-EtFOSE-M	118		10 - 177	11/17/22 10:53	11/28/22 15:07	1
d5-NEtPFOSA	96		10 - 159	11/17/22 10:53	11/28/22 15:07	1
13C3 HFPO-DA	108		17 - 185	11/17/22 10:53	11/28/22 15:07	1

Lab Sample ID: LCS 410-318643/2-A
Matrix: Water
Analysis Batch: 321275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	28.0		ng/L		109	58 - 139
Perfluoroheptanoic acid	25.6	27.7		ng/L		108	59 - 145
Perfluorooctanoic acid	25.6	29.1		ng/L		114	51 - 145
Perfluorononanoic acid	25.6	26.3		ng/L		103	61 - 139
Perfluorodecanoic acid	25.6	30.0		ng/L		117	56 - 138
Perfluorotridecanoic acid	25.6	31.0		ng/L		121	58 - 146
Perfluorotetradecanoic acid	25.6	27.4		ng/L		107	62 - 139
Perfluorobutanesulfonic acid	22.7	24.8		ng/L		109	53 - 138
Perfluorohexanesulfonic acid	23.3	25.1		ng/L		108	58 - 134
Perfluorooctanesulfonic acid	23.7	27.2		ng/L		115	45 - 150
NEtFOSAA	25.6	28.0		ng/L		110	55 - 134
NMeFOSAA	25.6	26.4		ng/L		103	59 - 140
10:2 FTS	24.7	27.8		ng/L		113	50 - 146
Perfluoropentanesulfonic acid	24.0	24.9		ng/L		104	55 - 140
Perfluoroheptanesulfonic acid	24.4	25.3		ng/L		104	56 - 140
Perfluorononanesulfonic acid	24.6	25.5		ng/L		104	59 - 136
Perfluorodecanesulfonic acid	24.7	24.5		ng/L		99	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	26.8		ng/L		108	48 - 138
Perfluorooctanesulfonamide	25.6	28.7		ng/L		112	43 - 167
Perfluorohexadecanoic acid	25.6	23.7		ng/L		93	41 - 158
Perfluorooctadecanoic acid	25.6	25.3		ng/L		99	29 - 172
Perfluorobutanoic acid	25.6	25.9		ng/L		101	59 - 136
Perfluoropentanoic acid	25.6	27.3		ng/L		107	57 - 141
NMeFOSE	25.6	26.2		ng/L		102	55 - 144
NMeFOSA	25.6	30.7		ng/L		120	64 - 143
NEtFOSE	25.6	26.6		ng/L		104	60 - 136
NEtFOSA	25.6	28.6		ng/L		112	61 - 134
HFPODA	25.6	27.5		ng/L		107	50 - 135
DONA	24.2	26.8		ng/L		111	55 - 143
9Cl-PF3ONS	23.8	24.9		ng/L		105	59 - 135
11Cl-PF3OUdS	23.8	25.7		ng/L		108	53 - 139
Perfluorododecanoic acid	25.6	30.2		ng/L		118	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	26.3		ng/L		110	55 - 139
Perfluoroundecanoic acid	25.6	28.9		ng/L		113	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	26.3		ng/L		108	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	24.3		ng/L		99	55 - 138

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	108		10 - 200
M2-8:2 FTS	109		33 - 200
M2-6:2 FTS	109		17 - 200
13C5 PFHxA	102		24 - 179
13C4 PFHpA	104		31 - 182
13C8 PFOA	100		48 - 162
13C9 PFNA	109		51 - 167
13C6 PFDA	103		49 - 163
13C7 PFUnA	103		34 - 174
13C2-PFDoDA	99		17 - 176
13C2 PFTeDA	115		10 - 179
13C3 PFBS	113		16 - 200
13C3 PFHxS	105		28 - 188
13C8 PFOS	110		51 - 159
d3-NMeFOSAA	122		31 - 174
d5-NEtFOSAA	114		29 - 195
13C8 FOSA	90		10 - 168
13C4 PFBA	103		42 - 165
13C5 PFPeA	107		38 - 187
d7-N-MeFOSE-M	97		10 - 178
d3-NMePFOSA	67		10 - 155
d9-N-EtFOSE-M	91		10 - 177
d5-NEtPFOSA	66		10 - 159
13C3 HFPO-DA	97		17 - 185

Lab Sample ID: MB 410-318947/1-A
Matrix: Water
Analysis Batch: 320607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorononanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
NEtFOSAA	<3.0		3.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
NMeFOSAA	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
10:2 FTS	<5.0		5.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		11/18/22 07:37	11/23/22 20:34	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-318947/1-A
Matrix: Water
Analysis Batch: 320607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	<5.0		5.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
NMeFOSE	<3.0		3.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
NMeFOSA	<3.0		3.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
NEtFOSE	<3.0		3.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
NEtFOSA	<5.0		5.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
HFPODA	<3.0		3.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
DONA	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
9Cl-PF3ONS	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		11/18/22 07:37	11/23/22 20:34	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		11/18/22 07:37	11/23/22 20:34	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*78*		*10 - 200*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
M2-8:2 FTS	*81*		*33 - 200*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
M2-6:2 FTS	*80*		*17 - 200*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C5 PFHxA	*89*		*24 - 179*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C4 PFHpA	*90*		*31 - 182*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C8 PFOA	*82*		*48 - 162*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C9 PFNA	*98*		*51 - 167*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C6 PFDA	*83*		*49 - 163*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C7 PFUnA	*78*		*34 - 174*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C2-PFDoDA	*74*		*17 - 176*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C2 PFTeDA	*91*		*10 - 179*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C3 PFBS	*83*		*16 - 200*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C3 PFHxS	*84*		*28 - 188*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C8 PFOS	*95*		*51 - 159*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
d3-NMeFOSAA	*102*		*31 - 174*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
d5-NEtFOSAA	*106*		*29 - 195*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C8 FOSA	*75*		*10 - 168*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C4 PFBA	*84*		*42 - 165*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C5 PFPeA	*83*		*38 - 187*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
d7-N-MeFOSE-M	*67*		*10 - 178*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
d3-NMePFOSA	*64*		*10 - 155*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
d9-N-EtFOSE-M	*66*		*10 - 177*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
d5-NEtPFOSA	*73*		*10 - 159*	*11/18/22 07:37*	*11/23/22 20:34*	*1*
13C3 HFPO-DA	*85*		*17 - 185*	*11/18/22 07:37*	*11/23/22 20:34*	*1*

Lab Sample ID: LCS 410-318947/3-A
Matrix: Water
Analysis Batch: 320607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	23.1		ng/L		90	58 - 139
Perfluoroheptanoic acid	25.6	23.3		ng/L		91	59 - 145

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-318947/3-A
Matrix: Water
Analysis Batch: 320607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	25.6	25.2		ng/L		99	51 - 145
Perfluorononanoic acid	25.6	25.1		ng/L		98	61 - 139
Perfluorodecanoic acid	25.6	25.6		ng/L		100	56 - 138
Perfluorotridecanoic acid	25.6	24.7		ng/L		96	58 - 146
Perfluorotetradecanoic acid	25.6	28.2		ng/L		110	62 - 139
Perfluorobutanesulfonic acid	22.7	23.2		ng/L		103	53 - 138
Perfluorohexanesulfonic acid	23.3	22.8		ng/L		98	58 - 134
Perfluorooctanesulfonic acid	23.7	24.0		ng/L		101	45 - 150
NEtFOSAA	25.6	24.2		ng/L		94	55 - 134
NMeFOSAA	25.6	25.6		ng/L		100	59 - 140
10:2 FTS	24.7	20.3		ng/L		82	50 - 146
Perfluoropentanesulfonic acid	24.0	22.1		ng/L		92	55 - 140
Perfluoroheptanesulfonic acid	24.4	23.1		ng/L		95	56 - 140
Perfluorononanesulfonic acid	24.6	22.3		ng/L		91	59 - 136
Perfluorodecanesulfonic acid	24.7	21.7		ng/L		88	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	22.8		ng/L		92	48 - 138
Perfluorooctanesulfonamide	25.6	25.8		ng/L		101	43 - 167
Perfluorohexadecanoic acid	25.6	23.5		ng/L		92	41 - 158
Perfluorooctadecanoic acid	25.6	22.3		ng/L		87	29 - 172
Perfluorobutanoic acid	25.6	22.9		ng/L		89	59 - 136
Perfluoropentanoic acid	25.6	24.0		ng/L		94	57 - 141
NMeFOSE	25.6	24.0		ng/L		94	55 - 144
NMeFOSA	25.6	26.8		ng/L		105	64 - 143
NEtFOSE	25.6	24.4		ng/L		95	60 - 136
NEtFOSA	25.6	24.8		ng/L		97	61 - 134
HFPODA	25.6	25.8		ng/L		101	50 - 135
DONA	24.2	23.4		ng/L		97	55 - 143
9Cl-PF3ONS	23.8	21.8		ng/L		92	59 - 135
11Cl-PF3OUdS	23.8	21.2		ng/L		89	53 - 139
Perfluorododecanoic acid	25.6	24.4		ng/L		95	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	23.4		ng/L		98	55 - 139
Perfluoroundecanoic acid	25.6	26.7		ng/L		104	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	21.9		ng/L		90	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	19.7		ng/L		80	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*89*		*10 - 200*
M2-8:2 FTS	*95*		*33 - 200*
M2-6:2 FTS	*91*		*17 - 200*
13C5 PFHxA	*101*		*24 - 179*
13C4 PFHpA	*102*		*31 - 182*
13C8 PFOA	*98*		*48 - 162*
13C9 PFNA	*107*		*51 - 167*
13C6 PFDA	*95*		*49 - 163*
13C7 PFUnA	*83*		*34 - 174*
13C2-PFDoDA	*85*		*17 - 176*
13C2 PFTeDA	*93*		*10 - 179*
13C3 PFBS	*94*		*16 - 200*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-318947/3-A
Matrix: Water
Analysis Batch: 320607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318947

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 PFHxS	99		28 - 188
13C8 PFOS	106		51 - 159
d3-NMeFOSAA	110		31 - 174
d5-NEtFOSAA	114		29 - 195
13C8 FOSA	80		10 - 168
13C4 PFBA	100		42 - 165
13C5 PFPeA	96		38 - 187
d7-N-MeFOSE-M	78		10 - 178
d3-NMePFOSA	71		10 - 155
d9-N-EtFOSE-M	76		10 - 177
d5-NEtPFOSA	74		10 - 159
13C3 HFPO-DA	93		17 - 185

LCMS

Prep Batch: 318161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104627-1	EB-110222	Total/NA	Water	EPA 537 (mod)	
410-104627-2	EB-110222-2	Total/NA	Water	EPA 537 (mod)	
410-104627-3	EB-110222-3	Total/NA	Water	EPA 537 (mod)	
410-104627-4	EB-110222-4	Total/NA	Water	EPA 537 (mod)	
410-104627-5	NOR-23-GW-76	Total/NA	Water	EPA 537 (mod)	
410-104627-6	NOR-22-GW-81	Total/NA	Water	EPA 537 (mod)	
MB 410-318161/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-318161/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 318643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104627-7	NOR-24-GW-71	Total/NA	Water	EPA 537 (mod)	
410-104627-8	NOR-25-GW-56	Total/NA	Water	EPA 537 (mod)	
410-104627-9	SRE-19-GW-51	Total/NA	Water	EPA 537 (mod)	
410-104627-10	SRE-20-GW-51	Total/NA	Water	EPA 537 (mod)	
410-104627-11	EB-110322	Total/NA	Water	EPA 537 (mod)	
MB 410-318643/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-318643/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 318947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104627-12	RW15-10-GW-91	Total/NA	Water	EPA 537 (mod)	
MB 410-318947/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-318947/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 319466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104627-1	EB-110222	Total/NA	Water	EPA 537 (Mod)	318161
410-104627-2	EB-110222-2	Total/NA	Water	EPA 537 (Mod)	318161
410-104627-3	EB-110222-3	Total/NA	Water	EPA 537 (Mod)	318161
410-104627-4	EB-110222-4	Total/NA	Water	EPA 537 (Mod)	318161
410-104627-5	NOR-23-GW-76	Total/NA	Water	EPA 537 (Mod)	318161
410-104627-6	NOR-22-GW-81	Total/NA	Water	EPA 537 (Mod)	318161
MB 410-318161/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	318161
LCS 410-318161/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	318161

Analysis Batch: 320607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104627-12	RW15-10-GW-91	Total/NA	Water	EPA 537 (Mod)	318947
MB 410-318947/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	318947
LCS 410-318947/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	318947

Analysis Batch: 321275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104627-7	NOR-24-GW-71	Total/NA	Water	EPA 537 (Mod)	318643
410-104627-8	NOR-25-GW-56	Total/NA	Water	EPA 537 (Mod)	318643
410-104627-9	SRE-19-GW-51	Total/NA	Water	EPA 537 (Mod)	318643
410-104627-10	SRE-20-GW-51	Total/NA	Water	EPA 537 (Mod)	318643
410-104627-11	EB-110322	Total/NA	Water	EPA 537 (Mod)	318643
MB 410-318643/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	318643
LCS 410-318643/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	318643

Lab Chronicle

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

Job ID: 410-104627-1

Client Sample ID: EB-110222
Date Collected: 11/02/22 13:40
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318161	D5VP	ELLE	11/16/22 10:11
Total/NA	Analysis	EPA 537 (Mod)		1	319466	JVK6	ELLE	11/20/22 20:36

Client Sample ID: EB-110222-2
Date Collected: 11/02/22 13:43
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318161	D5VP	ELLE	11/16/22 10:11
Total/NA	Analysis	EPA 537 (Mod)		1	319466	JVK6	ELLE	11/20/22 20:47

Client Sample ID: EB-110222-3
Date Collected: 11/02/22 13:46
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318161	D5VP	ELLE	11/16/22 10:11
Total/NA	Analysis	EPA 537 (Mod)		1	319466	JVK6	ELLE	11/20/22 20:58

Client Sample ID: EB-110222-4
Date Collected: 11/02/22 13:48
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318161	D5VP	ELLE	11/16/22 10:11
Total/NA	Analysis	EPA 537 (Mod)		1	319466	JVK6	ELLE	11/20/22 21:09

Client Sample ID: NOR-23-GW-76
Date Collected: 11/02/22 14:55
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318161	D5VP	ELLE	11/16/22 10:11
Total/NA	Analysis	EPA 537 (Mod)		1	319466	JVK6	ELLE	11/20/22 21:20

Client Sample ID: NOR-22-GW-81
Date Collected: 11/02/22 16:25
Date Received: 11/05/22 10:55

Lab Sample ID: 410-104627-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318161	D5VP	ELLE	11/16/22 10:11
Total/NA	Analysis	EPA 537 (Mod)		1	319466	JVK6	ELLE	11/20/22 21:31

Lab Chronicle

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

Job ID: 410-104627-1

Client Sample ID: NOR-24-GW-71
Lab Sample ID: 410-104627-7
Date Collected: 11/03/22 10:05
Matrix: Water
Date Received: 11/05/22 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318643	D5VP	ELLE	11/17/22 10:53
Total/NA	Analysis	EPA 537 (Mod)		1	321275	JVK6	ELLE	11/28/22 17:53

Client Sample ID: NOR-25-GW-56
Lab Sample ID: 410-104627-8
Date Collected: 11/03/22 11:30
Matrix: Water
Date Received: 11/05/22 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318643	D5VP	ELLE	11/17/22 10:53
Total/NA	Analysis	EPA 537 (Mod)		1	321275	JVK6	ELLE	11/28/22 18:05

Client Sample ID: SRE-19-GW-51
Lab Sample ID: 410-104627-9
Date Collected: 11/03/22 13:40
Matrix: Water
Date Received: 11/05/22 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318643	D5VP	ELLE	11/17/22 10:53
Total/NA	Analysis	EPA 537 (Mod)		1	321275	JVK6	ELLE	11/29/22 08:14

Client Sample ID: SRE-20-GW-51
Lab Sample ID: 410-104627-10
Date Collected: 11/03/22 15:10
Matrix: Water
Date Received: 11/05/22 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318643	D5VP	ELLE	11/17/22 10:53
Total/NA	Analysis	EPA 537 (Mod)		1	321275	JVK6	ELLE	11/29/22 08:25

Client Sample ID: EB-110322
Lab Sample ID: 410-104627-11
Date Collected: 11/03/22 15:45
Matrix: Water
Date Received: 11/05/22 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318643	D5VP	ELLE	11/17/22 10:53
Total/NA	Analysis	EPA 537 (Mod)		1	321275	JVK6	ELLE	11/29/22 08:36

Client Sample ID: RW15-10-GW-91
Lab Sample ID: 410-104627-12
Date Collected: 11/04/22 09:45
Matrix: Water
Date Received: 11/05/22 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			318947	M4QQ	ELLE	11/18/22 07:37
Total/NA	Analysis	EPA 537 (Mod)		1	320607	MT26	ELLE	11/23/22 23:09

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

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

Job ID: 410-104627-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	06-30-23

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	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
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

Method Summary

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

Job ID: 410-104627-1

Method	Method Description	Protocol	Laboratory
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

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

Job ID: 410-104627-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-104627-1	EB-110222	Water	11/02/22 13:40	11/05/22 10:55
410-104627-2	EB-110222-2	Water	11/02/22 13:43	11/05/22 10:55
410-104627-3	EB-110222-3	Water	11/02/22 13:46	11/05/22 10:55
410-104627-4	EB-110222-4	Water	11/02/22 13:48	11/05/22 10:55
410-104627-5	NOR-23-GW-76	Water	11/02/22 14:55	11/05/22 10:55
410-104627-6	NOR-22-GW-81	Water	11/02/22 16:25	11/05/22 10:55
410-104627-7	NOR-24-GW-71	Water	11/03/22 10:05	11/05/22 10:55
410-104627-8	NOR-25-GW-56	Water	11/03/22 11:30	11/05/22 10:55
410-104627-9	SRE-19-GW-51	Water	11/03/22 13:40	11/05/22 10:55
410-104627-10	SRE-20-GW-51	Water	11/03/22 15:10	11/05/22 10:55
410-104627-11	EB-110322	Water	11/03/22 15:45	11/05/22 10:55
410-104627-12	RW15-10-GW-91	Water	11/04/22 09:45	11/05/22 10:55

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Chain of Custody Record

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410-104627 Chain of Custody

Sampler: M. KENNEY / W. TIFFT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68376-12335.1
Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page1 of 2
Company: Weston Solutions, Inc.	PWSID:	Analysis Requested	Job #:

Mr. Matthew Kenney

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 #:
Email: Matthew.Kenney@WestonSolutions.com	WO #:
Project Name: Nantucket	Project #: 41004986
Site:	SSOW#:

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, Y - Trizma, 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)	PFC_IDA - 36 PFAS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				
EB-110222	11/2/22	1340	G	GW	X		MILL SLOT
EB-110222-2		1343					ROD
EB-110222-3		1346					CV (Check Valve)
EB-110222-4		1348					WCM
NOR-23-GW-76		1455					
NOR-22-GW-81		1625					
NOR-24-GW-71	11/3/22	1005					
NOR-25-GW-56		1130					
SRE-19-GW-51		1340					
SRE-20-GW-51		1510					
EB-110322		1545					MILL SLOT

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

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Kara L. Tifft	10-25-22 10:30	EAGLE		10/30/22 1600	WESTON
Relinquished by:	11/4/22 1135	WESTON	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	11/5/22 1055	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.4

Ver: 01/16/2019

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record

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Client Information	Sampler: MK/WT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68376-12335.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.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, Y - Trizma, Z - other (specify)
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone: 860 712 2684	PO #:			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)	PFC_IDA - 36 PFAS	Total Number of containers	Special Instructions/Note:
RW1S-10-GW-91	11/4/22	0945	G	GW	X		

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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		11/4/22 1135	WESTON			
2						
3					11/5/22 1055	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-104627-1

Login Number: 104627 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: McBeth, Jessica

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-104627-1
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:** 12/02/2022

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-105576-1

WESTON SAMPLE IDs: RW15-37-S-00-01, RW15-38-S-00-01, RW15-39-S-00-01, RW15-39-S-00-01 DUP, RW15-40-S-00-01, RW15-33-S-00-01, RW15-34-S-00-01, RW15-35-S-00-01, RW15-36-S-00-01, NOR-14-S-04-06, NOR-14-S-06-08, NOR-14-S-08-10, NOR-14-S-15-20 NOR-18-S-00-01, NOR-18-S-01-02, NOR-18-S-03-04, NOR-19-S-00-01, NOR-19-S-01-02, NOR-19-S-01-02 DUP, NOR-19-S-03-04

Data Reviewed	Fraction				Comments
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				Analytes reported between MDL and RL flagged as estimated J.
Preservation/Log Sheet	√				
Holding Time	NOR-14-S-06-08 NOR-14-S-08-10 NOR-14-S-15-20 NOR-18-S-01-02 NOR-18-S-03-04 NOR-19-S-01-02 NOR-19-S-01-02 DUP NOR-19-S-03-04				Client requested samples be analyzed out of hold. All detects flagged as estimated J. All non-detects flagged as estimated UJ.
Field Blanks (Trip/Equip.)	NA				
Instrument/Method Blanks (Soils/Solids)	MB 410-318999/1-B				Perfluorooctadecanoic acid detected above the MDL but below the RL. Associated samples are non-detect. No qualifiers applied.
Instrument/Method Blanks (Aqueous)	NA				
MS/MSD (Soil/Solids)	NOR-19-S-03-04				NMeFOSAA low in MSD. Analyte already UJ qualified for hold time exceedance.
MS/MSD (Aqueous)	NA				
LCS/LCSD	√				
ICAL/ICV/CCV	√				Laboratory noted that M2-8:2 FTS and d5-NEtFOSAA were outside the recovery limits in CCVs, but recovered within limits in associated samples. No qualifiers applied. Laboratory noted that 10:2 FTS recovered outside the QC limits in the CCVs, but was not detected in associated samples. No qualifiers applied.

Lab Duplicates	NA				
Field Duplicates	√				RW15-39-S-00-01 and RW15-39-S-00-01 DUP; NOR-19-S-01-02 and NOR-19-S-01-02 DUP
Isotope Dilution Recoveries	NOR-14-S-04-06 NOR-18-S-01-02 NOR-18-S-03-04 NOR-19-S-01-02 NOR-19-S-01-02 DUP NOR-19-S-03-04 RW15-37-S-00-01				NOR-14-S-04-06, NOR-18-S-01-02, NOR-18-S-03-04, NOR-19-S-01-02, NOR-19-S-01-02 DUP, NOR-19-S-03-04: d5-NEtFOSAA and d3-NMeFOSAA low: qualify NEtFOSAA and NMeFOSAA non-detects as estimated UJ. RW15-37-S-00-01: d5-NEtPFOSA and d3-NMePFOSA low: qualify NEtFOSA and NMeFOSA as estimated non-detect, UJ.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: J, UJ

Data Reviewer Initials: RBE
Date: 1/27/2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Generated 1/12/2023 1:18:03 PM

JOB DESCRIPTION

Nantucket

JOB NUMBER

410-105576-1

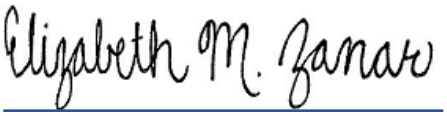
Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

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

Job ID: 410-105576-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
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 Environment Testing, LLC	Project #:	410-105576-1
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:** 12/22/2022

Job ID: 410-105576-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-105576-1

Receipt
The samples were received on 11/12/2022 9:34 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 PFC_IDA: The recovery for target analyte: 10:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the result is high and the target 10:2 FTS is not detected in the following samples: RW15-37-S-00-01 (410-105576-1), RW15-38-S-00-01 (410-105576-4), RW15-39-S-00-01 (410-105576-7) and RW15-39-S-00-01 DUP (410-105576-8), the data is reported.

Method PFC_IDA: The recovery for labeled isotope(s): M2-8:2 FTS and d5-NEtFOSAA are outside the QC acceptance limits in the closing continuing calibration verification standard. Since the recovery for the labeled isotope(s) is within QC limits in the following sample: RW15-36-S-00-01 (410-105576-23), the data is reported.

Method PFC_IDA: The recovery for target analyte 10:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the result is high and target 10:2 FTS is not detected in the following samples: NOR-14-S-04-06 (410-105576-26), NOR-18-S-00-01 (410-105576-30) and NOR-19-S-00-01 (410-105576-33), the data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) d3-NMePFOSA and d5-NEtPFOSA in the following sample: RW15-37-S-00-01 (410-105576-1) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was within QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) d3-NMePFOSA and d5-NEtPFOSA in the laboratory control spike samples associated with the following samples: RW15-37-S-00-01 (410-105576-1), RW15-38-S-00-01 (410-105576-4), RW15-39-S-00-01 (410-105576-7) and RW15-39-S-00-01 DUP (410-105576-8) is outside the QC acceptance limits. The following action was taken: This sample(s) was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted laboratory control spike sample(s) is within the QC acceptance limits.

Method PFC_IDA: The holding time was not met. Per client request, the analysis for the following samples was added after the hold time had already expired: NOR-14-S-06-08 (410-105576-27), NOR-14-S-08-10 (410-105576-28), NOR-14-S-15-20 (410-105576-29), NOR-18-S-01-02 (410-105576-31), NOR-18-S-03-04 (410-105576-32), NOR-19-S-01-02 (410-105576-34), NOR-19-S-01-02 DUP (410-105576-35) and NOR-19-S-03-04 (410-105576-36).

Method PFC_IDA: The recovery for the labeled isotope(s): d3-NMeFOSAA and d5-NEtFOSAA in the following sample: NOR-19-S-03-04 (410-105576-36) were outside the QC acceptance limits. The recovery for the labeled isotope(s): d3-NMeFOSAA and d5-NEtFOSAA in the associated matrix spike and matrix spike duplicate were also outside the QC acceptance limits. These failures were 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.

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: 410-105576-1

Client Sample ID: RW15-37-S-00-01 — Lab Sample ID: 410-105576-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.39	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.39	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.55	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: RW15-38-S-00-01 — Lab Sample ID: 410-105576-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.63	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.33	J	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: RW15-39-S-00-01 — Lab Sample ID: 410-105576-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.49	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: RW15-39-S-00-01 DUP — Lab Sample ID: 410-105576-8

No Detections.

Client Sample ID: RW15-40-S-00-01 — Lab Sample ID: 410-105576-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.38	J	0.60	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: RW15-33-S-00-01 — Lab Sample ID: 410-105576-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.8		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	0.77		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	1.4		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.33	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.24	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorobutanoic acid	0.97	J	2.1	0.85	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	3.5		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	0.87	J	3.2	0.64	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: RW15-34-S-00-01 — Lab Sample ID: 410-105576-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.6		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.94		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.58	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	2.7		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.81		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.27	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
10:2 FTS	0.91	J	2.0	0.61	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	3.4		0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.31	J	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	2.7		2.0	0.61	ng/g	1	☼	537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	1.4	J	3.1	0.61	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: 410-105576-1

Client Sample ID: RW15-35-S-00-01 — Lab Sample ID: 410-105576-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.21	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.22	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.53	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.36	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: RW15-36-S-00-01 — Lab Sample ID: 410-105576-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	1.2		0.64	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.21	J	0.64	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-14-S-04-06 — Lab Sample ID: 410-105576-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.68		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.73		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.59		0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	34		1.9	0.58	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-14-S-06-08 — Lab Sample ID: 410-105576-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.49	J H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.49	J H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.44	J H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	25	H cn	2.0	0.59	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-14-S-08-10 — Lab Sample ID: 410-105576-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.78	H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.0	H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.48	J H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	47	H cn	2.0	0.59	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-14-S-15-20 — Lab Sample ID: 410-105576-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.47	J H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.57	J H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.60	H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	17	H cn	2.0	0.59	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-18-S-00-01 — Lab Sample ID: 410-105576-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.89		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.69		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.79		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.80		0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.36	J	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.7		0.63	0.21	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: 410-105576-1

Client Sample ID: NOR-18-S-01-02 — Lab Sample ID: 410-105576-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.81	H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.0	H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.28	J H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.84	H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-18-S-03-04 — Lab Sample ID: 410-105576-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.23	J H cn	0.59	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-19-S-00-01 — Lab Sample ID: 410-105576-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.40	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.42	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.60	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.62	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorodecanoic acid	0.27	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.85		0.66	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoroundecanoic acid	0.26	J	0.66	0.22	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-19-S-01-02 — Lab Sample ID: 410-105576-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.42	J H cn	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.40	J H cn	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.48	J H cn	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.65	H cn	0.63	0.21	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-19-S-01-02 DUP — Lab Sample ID: 410-105576-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.41	J H cn	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.36	J H cn	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorooctanoic acid	0.59	J H cn	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluorononanoic acid	0.25	J H cn	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.73	H cn	0.65	0.22	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-19-S-03-04 — Lab Sample ID: 410-105576-36

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 410-105576-1

Client Sample ID: RW15-37-S-00-01
Date Collected: 11/09/22 11:25
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-1
Matrix: Solid
Percent Solids: 91.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluoroheptanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorooctanoic acid	**0.39**	**J**	0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorononanoic acid	**0.39**	**J**	0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorodecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorotridecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorotetradecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorobutanesulfonic acid	<0.44		2.2	0.44	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorohexanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorooctanesulfonic acid	**0.55**	**J**	0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
NEtFOSAA	<0.22		2.2	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
NMeFOSAA	<0.22		2.2	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
10:2 FTS	<0.65	cn	2.2	0.65	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluoropentanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluoroheptanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorononanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorodecanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22		2.2	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorooctanesulfonamide	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorohexadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorooctadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorobutanoic acid	<0.87		2.2	0.87	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluoropentanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
NMeFOSE	<0.55		2.2	0.55	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
NMeFOSA	<0.55		2.2	0.55	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
NEtFOSE	<0.55		2.2	0.55	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
NEtFOSA	<0.55		2.2	0.55	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
HFPODA	<1.1		2.2	1.1	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
DONA	<0.22		3.3	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
9Cl-PF3ONS	<0.22		2.2	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
11Cl-PF3OUdS	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluorododecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
4:2 Fluorotelomer sulfonic acid	<0.65		2.2	0.65	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
Perfluoroundecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
6:2 Fluorotelomer sulfonic acid	<0.65		2.2	0.65	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1
8:2 Fluorotelomer sulfonic acid	<0.65		3.3	0.65	ng/g	☼	11/16/22 18:13	11/19/22 05:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
M2-8:2 FTS	*105*		*15 - 200*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
M2-6:2 FTS	*103*		*10 - 200*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
13C5 PFHxA	*63*		*10 - 174*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
13C4 PFHpA	*69*		*10 - 178*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
13C8 PFOA	*70*		*26 - 159*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
13C9 PFNA	*79*		*26 - 165*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
13C6 PFDA	*74*		*26 - 161*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
13C7 PFUnA	*80*		*12 - 173*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
13C2-PFDoDA	*81*		*11 - 166*	*11/16/22 18:13*	*11/19/22 05:30*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*11/16/22 18:13*	*11/19/22 05:30*	*1*

Client Sample ID: RW15-37-S-00-01

Lab Sample ID: 410-105576-1
Date Collected: 11/09/22 11:25
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	76		27 - 179	11/16/22 18:13	11/19/22 05:30	1
13C3 PFHxS	80		24 - 171	11/16/22 18:13	11/19/22 05:30	1
13C8 PFOS	82		41 - 154	11/16/22 18:13	11/19/22 05:30	1
d3-NMeFOSAA	38		10 - 178	11/16/22 18:13	11/19/22 05:30	1
d5-NEtFOSAA	46		10 - 193	11/16/22 18:13	11/19/22 05:30	1
13C8 FOSA	41		14 - 163	11/16/22 18:13	11/19/22 05:30	1
13C4 PFBA	59		28 - 153	11/16/22 18:13	11/19/22 05:30	1
13C5 PFPeA	58		24 - 161	11/16/22 18:13	11/19/22 05:30	1
d7-N-MeFOSE-M	32		10 - 179	11/16/22 18:13	11/19/22 05:30	1
d3-NMePFOSA	7	*5- cn	10 - 175	11/16/22 18:13	11/19/22 05:30	1
d9-N-EtFOSE-M	37		10 - 185	11/16/22 18:13	11/19/22 05:30	1
d5-NEtPFOSA	9	*5- cn	10 - 180	11/16/22 18:13	11/19/22 05:30	1
13C3 HFPO-DA	51		10 - 169	11/16/22 18:13	11/19/22 05:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.4**		1.0	1.0	%			11/13/22 17:06	1

Client Sample ID: RW15-38-S-00-01

Lab Sample ID: 410-105576-4
Date Collected: 11/09/22 11:50
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluoroheptanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorooctanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorononanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorodecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorotridecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorotetradecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorobutanesulfonic acid	<0.43		2.2	0.43	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorohexanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorooctanesulfonic acid	**0.63**	**J**	0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
NEtFOSAA	<0.22		2.2	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
NMeFOSAA	<0.22		2.2	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
10:2 FTS	<0.65	cn	2.2	0.65	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluoropentanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluoroheptanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorononanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorodecanesulfonic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22		2.2	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorooctanesulfonamide	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorohexadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorooctadecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorobutanoic acid	<0.87		2.2	0.87	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluoropentanoic acid	**0.33**	**J**	0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
NMeFOSE	<0.54		2.2	0.54	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
NMeFOSA	<0.54		2.2	0.54	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1

Client Sample ID: RW15-38-S-00-01

Lab Sample ID: 410-105576-4

Date Collected: 11/09/22 11:50
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.54		2.2	0.54	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
NEtFOSA	<0.54		2.2	0.54	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
HFPODA	<1.1		2.2	1.1	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
DONA	<0.22		3.3	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
9Cl-PF3ONS	<0.22		2.2	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
11Cl-PF3OUdS	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluorododecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
4:2 Fluorotelomer sulfonic acid	<0.65		2.2	0.65	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
Perfluoroundecanoic acid	<0.22		0.65	0.22	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
6:2 Fluorotelomer sulfonic acid	<0.65		2.2	0.65	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1
8:2 Fluorotelomer sulfonic acid	<0.65		3.3	0.65	ng/g	☼	11/16/22 18:13	11/19/22 05:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*115*		*10 - 200*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
M2-8:2 FTS	*139*		*15 - 200*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
M2-6:2 FTS	*122*		*10 - 200*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C5 PFHxA	*69*		*10 - 174*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C4 PFHpA	*73*		*10 - 178*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C8 PFOA	*75*		*26 - 159*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C9 PFNA	*87*		*26 - 165*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C6 PFDA	*85*		*26 - 161*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C7 PFUnA	*91*		*12 - 173*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C2-PFDoDA	*90*		*11 - 166*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C2 PFTeDA	*89*		*10 - 169*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C3 PFBS	*93*		*27 - 179*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C3 PFHxS	*93*		*24 - 171*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C8 PFOS	*103*		*41 - 154*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
d3-NMeFOSAA	*52*		*10 - 178*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
d5-NEtFOSAA	*67*		*10 - 193*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C8 FOSA	*63*		*14 - 163*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C4 PFBA	*64*		*28 - 153*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C5 PFPeA	*64*		*24 - 161*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
d7-N-MeFOSE-M	*50*		*10 - 179*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
d3-NMePFOSA	*33*	*cn*	*10 - 175*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
d9-N-EtFOSE-M	*55*		*10 - 185*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
d5-NEtPFOSA	*36*	*cn*	*10 - 180*	*11/16/22 18:13*	*11/19/22 05:41*	*1*
13C3 HFPO-DA	*63*		*10 - 169*	*11/16/22 18:13*	*11/19/22 05:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.7**		1.0	1.0	%			11/13/22 17:06	1

Client Sample ID: RW15-39-S-00-01

Lab Sample ID: 410-105576-7

Date Collected: 11/09/22 12:05
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.7

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluoroheptanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorooctanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1

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

Job ID: 410-105576-1

Client Sample ID: RW15-39-S-00-01
Date Collected: 11/09/22 12:05
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-7
Matrix: Solid
Percent Solids: 91.7

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorodecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorooctanesulfonic acid	**0.49**	**J**	0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
10:2 FTS	<0.64	cn	2.1	0.64	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorobutanoic acid	<0.86		2.1	0.86	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluoropentanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
DONA	<0.21		3.2	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
6:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1
8:2 Fluorotelomer sulfonic acid	<0.64		3.2	0.64	ng/g	☼	11/16/22 18:13	11/19/22 05:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*110*		*10 - 200*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
M2-8:2 FTS	*144*		*15 - 200*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
M2-6:2 FTS	*114*		*10 - 200*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C5 PFHxA	*71*		*10 - 174*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C4 PFHpA	*78*		*10 - 178*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C8 PFOA	*76*		*26 - 159*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C9 PFNA	*87*		*26 - 165*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C6 PFDA	*87*		*26 - 161*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C7 PFUnA	*90*		*12 - 173*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C2-PFDoDA	*91*		*11 - 166*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C2 PFTeDA	*91*		*10 - 169*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C3 PFBS	*96*		*27 - 179*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C3 PFHxS	*95*		*24 - 171*	*11/16/22 18:13*	*11/19/22 05:53*	*1*
13C8 PFOS	*101*		*41 - 154*	*11/16/22 18:13*	*11/19/22 05:53*	*1*

Client Sample ID: RW15-39-S-00-01

Lab Sample ID: 410-105576-7
Date Collected: 11/09/22 12:05
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.7

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	51		10 - 178	11/16/22 18:13	11/19/22 05:53	1
d5-NEtFOSAA	65		10 - 193	11/16/22 18:13	11/19/22 05:53	1
13C8 FOSA	52		14 - 163	11/16/22 18:13	11/19/22 05:53	1
13C4 PFBA	70		28 - 153	11/16/22 18:13	11/19/22 05:53	1
13C5 PFPeA	67		24 - 161	11/16/22 18:13	11/19/22 05:53	1
d7-N-MeFOSE-M	40		10 - 179	11/16/22 18:13	11/19/22 05:53	1
d3-NMePFOSA	24	cn	10 - 175	11/16/22 18:13	11/19/22 05:53	1
d9-N-EtFOSE-M	45		10 - 185	11/16/22 18:13	11/19/22 05:53	1
d5-NEtPFOSA	24	cn	10 - 180	11/16/22 18:13	11/19/22 05:53	1
13C3 HFPO-DA	60		10 - 169	11/16/22 18:13	11/19/22 05:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.3		1.0	1.0	%			11/13/22 17:06	1

Client Sample ID: RW15-39-S-00-01 DUP

Lab Sample ID: 410-105576-8
Date Collected: 11/09/22 12:05
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluoroheptanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorooctanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorononanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorodecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorooctanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
10:2 FTS	<0.64	cn	2.1	0.64	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorobutanoic acid	<0.85		2.1	0.85	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluoropentanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1

Client Sample ID: RW15-39-S-00-01 DUP

Lab Sample ID: 410-105576-8

Date Collected: 11/09/22 12:05
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	<0.21		3.2	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
6:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1
8:2 Fluorotelomer sulfonic acid	<0.64		3.2	0.64	ng/g	☼	11/16/22 18:13	11/19/22 06:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*114*		*10 - 200*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
M2-8:2 FTS	*138*		*15 - 200*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
M2-6:2 FTS	*113*		*10 - 200*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C5 PFHxA	*67*		*10 - 174*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C4 PFHpA	*72*		*10 - 178*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C8 PFOA	*71*		*26 - 159*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C9 PFNA	*84*		*26 - 165*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C6 PFDA	*80*		*26 - 161*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C7 PFUnA	*85*		*12 - 173*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C2-PFDoDA	*80*		*11 - 166*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C3 PFBS	*85*		*27 - 179*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C3 PFHxS	*92*		*24 - 171*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C8 PFOS	*93*		*41 - 154*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
d3-NMeFOSAA	*55*		*10 - 178*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
d5-NEtFOSAA	*69*		*10 - 193*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C8 FOSA	*54*		*14 - 163*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C4 PFBA	*59*		*28 - 153*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C5 PFPeA	*61*		*24 - 161*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
d7-N-MeFOSE-M	*40*		*10 - 179*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
d3-NMePFOSA	*21*	*cn*	*10 - 175*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
d9-N-EtFOSE-M	*47*		*10 - 185*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
d5-NEtPFOSA	*22*	*cn*	*10 - 180*	*11/16/22 18:13*	*11/19/22 06:04*	*1*
13C3 HFPO-DA	*57*		*10 - 169*	*11/16/22 18:13*	*11/19/22 06:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.7**		1.0	1.0	%			11/13/22 17:06	1

Client Sample ID: RW15-40-S-00-01

Lab Sample ID: 410-105576-11

Date Collected: 11/09/22 12:20
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 95.6

Method: EPA 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	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1

Client Sample ID: RW15-40-S-00-01
Date Collected: 11/09/22 12:20
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-11
Matrix: Solid
Percent Solids: 95.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorooctanesulfonic acid	**0.38**	**J**	0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
10:2 FTS	<0.60		2.0	0.60	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
NMeFOSE	<0.50		2.0	0.50	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
NMeFOSA	<0.50		2.0	0.50	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
NEtFOSE	<0.50		2.0	0.50	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
NEtFOSA	<0.50		2.0	0.50	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
HFPODA	<1.0		2.0	1.0	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
DONA	<0.20		3.0	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g	☼	11/18/22 09:11	11/27/22 20:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*105*		*10 - 200*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
M2-8:2 FTS	*159*		*15 - 200*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
M2-6:2 FTS	*128*		*10 - 200*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C5 PFHxA	*82*		*10 - 174*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C4 PFHpA	*87*		*10 - 178*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C8 PFOA	*84*		*26 - 159*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C9 PFNA	*88*		*26 - 165*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C6 PFDA	*85*		*26 - 161*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C7 PFUnA	*82*		*12 - 173*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C2-PFDoDA	*80*		*11 - 166*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C2 PFTeDA	*80*		*10 - 169*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C3 PFBS	*88*		*27 - 179*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C3 PFHxS	*93*		*24 - 171*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C8 PFOS	*88*		*41 - 154*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
d3-NMeFOSAA	*81*		*10 - 178*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
d5-NEtFOSAA	*83*		*10 - 193*	*11/18/22 09:11*	*11/27/22 20:07*	*1*
13C8 FOSA	*80*		*14 - 163*	*11/18/22 09:11*	*11/27/22 20:07*	*1*

Client Sample ID: RW15-40-S-00-01

Lab Sample ID: 410-105576-11

Date Collected: 11/09/22 12:20
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 95.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	79		28 - 153	11/18/22 09:11	11/27/22 20:07	1
13C5 PFPeA	82		24 - 161	11/18/22 09:11	11/27/22 20:07	1
d7-N-MeFOSE-M	72		10 - 179	11/18/22 09:11	11/27/22 20:07	1
d3-NMePFOSA	64		10 - 175	11/18/22 09:11	11/27/22 20:07	1
d9-N-EtFOSE-M	68		10 - 185	11/18/22 09:11	11/27/22 20:07	1
d5-NEtPFOSA	66		10 - 180	11/18/22 09:11	11/27/22 20:07	1
13C3 HFPO-DA	75		10 - 169	11/18/22 09:11	11/27/22 20:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.4**		1.0	1.0	%			11/13/22 17:06	1

Client Sample ID: RW15-33-S-00-01

Lab Sample ID: 410-105576-14

Date Collected: 11/10/22 09:14
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.8**		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluoroheptanoic acid	**1.1**		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorooctanoic acid	**0.77**		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorononanoic acid	**1.4**		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorodecanoic acid	**0.33**	**J**	0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorooctanesulfonic acid	**0.24**	**J**	0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
10:2 FTS	<0.64		2.1	0.64	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluorobutanoic acid	**0.97**	**J**	2.1	0.85	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluoropentanoic acid	**3.5**		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
DONA	<0.21		3.2	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1

Client Sample ID: RW15-33-S-00-01

Lab Sample ID: 410-105576-14
Date Collected: 11/10/22 09:14
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
6:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1
8:2 Fluorotelomer sulfonic acid	**0.87**	**J**	3.2	0.64	ng/g	☼	11/18/22 09:11	11/27/22 20:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
M2-8:2 FTS	*126*		*15 - 200*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
M2-6:2 FTS	*97*		*10 - 200*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C5 PFHxA	*78*		*10 - 174*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C4 PFHpA	*81*		*10 - 178*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C8 PFOA	*84*		*26 - 159*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C9 PFNA	*95*		*26 - 165*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C6 PFDA	*84*		*26 - 161*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C7 PFUnA	*93*		*12 - 173*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C2-PFDoDA	*92*		*11 - 166*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C2 PFTeDA	*82*		*10 - 169*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C3 PFBS	*87*		*27 - 179*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C3 PFHxS	*85*		*24 - 171*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C8 PFOS	*93*		*41 - 154*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
d3-NMeFOSAA	*73*		*10 - 178*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
d5-NEtFOSAA	*85*		*10 - 193*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C8 FOSA	*81*		*14 - 163*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C4 PFBA	*76*		*28 - 153*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C5 PFPeA	*77*		*24 - 161*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
d7-N-MeFOSE-M	*78*		*10 - 179*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
d3-NMePFOSA	*63*		*10 - 175*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
d9-N-EtFOSE-M	*76*		*10 - 185*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
d5-NEtPFOSA	*70*		*10 - 180*	*11/18/22 09:11*	*11/27/22 20:18*	*1*
13C3 HFPO-DA	*71*		*10 - 169*	*11/18/22 09:11*	*11/27/22 20:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.7**		1.0	1.0	%			11/13/22 17:06	1

Client Sample ID: RW15-34-S-00-01

Lab Sample ID: 410-105576-17
Date Collected: 11/10/22 09:45
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 94.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.6**		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluoroheptanoic acid	**0.94**		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorooctanoic acid	**0.58**	**J**	0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorononanoic acid	**2.7**		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorodecanoic acid	**0.81**		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorotridecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorotetradecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorobutanesulfonic acid	<0.41		2.0	0.41	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorohexanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1

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

Job ID: 410-105576-1

Client Sample ID: RW15-34-S-00-01
Date Collected: 11/10/22 09:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-17
Matrix: Solid
Percent Solids: 94.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	**0.27**	**J**	0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
NEtFOSAA	<0.20		2.0	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
NMeFOSAA	<0.20		2.0	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
10:2 FTS	**0.91**	**J**	2.0	0.61	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluoropentanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluoroheptanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorononanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorodecanesulfonic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorooctanesulfonamide	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorohexadecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorooctadecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorobutanoic acid	<0.81		2.0	0.81	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluoropentanoic acid	**3.4**		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
NMeFOSE	<0.51		2.0	0.51	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
NMeFOSA	<0.51		2.0	0.51	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
NEtFOSE	<0.51		2.0	0.51	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
NEtFOSA	<0.51		2.0	0.51	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
HFPODA	<1.0		2.0	1.0	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
DONA	<0.20		3.1	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
11Cl-PF3OUdS	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluorododecanoic acid	<0.20		0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
4:2 Fluorotelomer sulfonic acid	<0.61		2.0	0.61	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
Perfluoroundecanoic acid	**0.31**	**J**	0.61	0.20	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
6:2 Fluorotelomer sulfonic acid	**2.7**		2.0	0.61	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1
8:2 Fluorotelomer sulfonic acid	**1.4**	**J**	3.1	0.61	ng/g	☼	11/18/22 09:11	11/27/22 20:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
M2-8:2 FTS	*118*		*15 - 200*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C5 PFHxA	*78*		*10 - 174*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C4 PFHpA	*80*		*10 - 178*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C8 PFOA	*80*		*26 - 159*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C9 PFNA	*83*		*26 - 165*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C6 PFDA	*79*		*26 - 161*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C7 PFUnA	*81*		*12 - 173*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C2-PFDoDA	*82*		*11 - 166*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C2 PFTeDA	*87*		*10 - 169*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C3 PFBS	*82*		*27 - 179*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C3 PFHxS	*81*		*24 - 171*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C8 PFOS	*86*		*41 - 154*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
d3-NMeFOSAA	*72*		*10 - 178*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
d5-NEtFOSAA	*81*		*10 - 193*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C8 FOSA	*76*		*14 - 163*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C4 PFBA	*77*		*28 - 153*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
13C5 PFPeA	*77*		*24 - 161*	*11/18/22 09:11*	*11/27/22 20:29*	*1*
d7-N-MeFOSE-M	*69*		*10 - 179*	*11/18/22 09:11*	*11/27/22 20:29*	*1*

Client Sample ID: RW15-34-S-00-01

Lab Sample ID: 410-105576-17

Date Collected: 11/10/22 09:45
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 94.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	54		10 - 175	11/18/22 09:11	11/27/22 20:29	1
d9-N-EtFOSE-M	68		10 - 185	11/18/22 09:11	11/27/22 20:29	1
d5-NEtPFOSA	61		10 - 180	11/18/22 09:11	11/27/22 20:29	1
13C3 HFPO-DA	69		10 - 169	11/18/22 09:11	11/27/22 20:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.6		1.0	1.0	%			11/13/22 17:06	1

Client Sample ID: RW15-35-S-00-01

Lab Sample ID: 410-105576-20

Date Collected: 11/10/22 10:10
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.4

Method: EPA 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	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluoroheptanoic acid	0.21	J	0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorooctanoic acid	0.22	J	0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorononanoic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorodecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorotridecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorohexanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorooctanesulfonic acid	0.53	J	0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
10:2 FTS	<0.63		2.1	0.63	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluoropentanoic acid	0.36	J	0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
Perfluoroundecanoic acid	<0.21		0.63	0.21	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1

Client Sample ID: RW15-35-S-00-01

Lab Sample ID: 410-105576-20

Date Collected: 11/10/22 10:10
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1
8:2 Fluorotelomer sulfonic acid	<0.63		3.1	0.63	ng/g	☼	11/18/22 09:11	11/27/22 20:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
M2-8:2 FTS	*113*		*15 - 200*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C5 PFHxA	*73*		*10 - 174*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C4 PFHpA	*79*		*10 - 178*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C8 PFOA	*77*		*26 - 159*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C9 PFNA	*79*		*26 - 165*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C6 PFDA	*77*		*26 - 161*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C7 PFUnA	*78*		*12 - 173*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C2-PFDoDA	*76*		*11 - 166*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C2 PFTeDA	*78*		*10 - 169*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C3 PFBS	*78*		*27 - 179*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C3 PFHxS	*85*		*24 - 171*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C8 PFOS	*87*		*41 - 154*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
d3-NMeFOSAA	*51*		*10 - 178*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
d5-NEtFOSAA	*65*		*10 - 193*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C8 FOSA	*77*		*14 - 163*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C4 PFBA	*71*		*28 - 153*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C5 PFPeA	*73*		*24 - 161*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
d7-N-MeFOSE-M	*78*		*10 - 179*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
d3-NMePFOSA	*65*		*10 - 175*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
d9-N-EtFOSE-M	*69*		*10 - 185*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
d5-NEtPFOSA	*70*		*10 - 180*	*11/18/22 09:11*	*11/27/22 20:40*	*1*
13C3 HFPO-DA	*71*		*10 - 169*	*11/18/22 09:11*	*11/27/22 20:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.6**		1.0	1.0	%			11/13/22 17:06	1

Client Sample ID: RW15-36-S-00-01

Lab Sample ID: 410-105576-23

Date Collected: 11/10/22 10:45
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 93.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluoroheptanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorooctanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorononanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorodecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorotridecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorotetradecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorobutanesulfonic acid	<0.43		2.1	0.43	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorohexanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorooctanesulfonic acid	**1.2**		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1

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

Job ID: 410-105576-1

Client Sample ID: RW15-36-S-00-01
Date Collected: 11/10/22 10:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-23
Matrix: Solid
Percent Solids: 93.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	<0.64		2.1	0.64	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluoropentanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluoroheptanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorononanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorodecanesulfonic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorooctanesulfonamide	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorohexadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorooctadecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorobutanoic acid	<0.86		2.1	0.86	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluoropentanoic acid	**0.21**	**J**	0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
NMeFOSE	<0.54		2.1	0.54	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
NMeFOSA	<0.54		2.1	0.54	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
NEtFOSE	<0.54		2.1	0.54	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
NEtFOSA	<0.54		2.1	0.54	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
DONA	<0.21		3.2	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
11Cl-PF3OUdS	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluorododecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
4:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
Perfluoroundecanoic acid	<0.21		0.64	0.21	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
6:2 Fluorotelomer sulfonic acid	<0.64		2.1	0.64	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1
8:2 Fluorotelomer sulfonic acid	<0.64		3.2	0.64	ng/g	☼	11/18/22 09:11	11/27/22 21:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*10 - 200*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
M2-8:2 FTS	*99*	*cn*	*15 - 200*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
M2-6:2 FTS	*87*		*10 - 200*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C5 PFHxA	*72*		*10 - 174*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C4 PFHpA	*72*		*10 - 178*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C8 PFOA	*73*		*26 - 159*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C9 PFNA	*78*		*26 - 165*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C6 PFDA	*72*		*26 - 161*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C7 PFUnA	*76*		*12 - 173*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C2-PFDoDA	*77*		*11 - 166*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C2 PFTeDA	*80*		*10 - 169*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C3 PFBS	*74*		*27 - 179*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C3 PFHxS	*76*		*24 - 171*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C8 PFOS	*85*		*41 - 154*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
d3-NMeFOSAA	*49*		*10 - 178*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
d5-NEtFOSAA	*61*	*cn*	*10 - 193*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C8 FOSA	*69*		*14 - 163*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C4 PFBA	*69*		*28 - 153*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
13C5 PFPeA	*71*		*24 - 161*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
d7-N-MeFOSE-M	*71*		*10 - 179*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
d3-NMePFOSA	*58*		*10 - 175*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
d9-N-EtFOSE-M	*63*		*10 - 185*	*11/18/22 09:11*	*11/27/22 21:02*	*1*
d5-NEtPFOSA	*60*		*10 - 180*	*11/18/22 09:11*	*11/27/22 21:02*	*1*

Client Sample ID: RW15-36-S-00-01

Lab Sample ID: 410-105576-23

Date Collected: 11/10/22 10:45
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 93.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	71		10 - 169	11/18/22 09:11	11/27/22 21:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.7		1.0	1.0	%			11/13/22 17:06	1

Client Sample ID: NOR-14-S-04-06

Lab Sample ID: 410-105576-26

Date Collected: 11/11/22 08:40
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 96.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	0.68		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluoroheptanoic acid	0.73		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorooctanoic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorooctanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
10:2 FTS	<0.58	cn	1.9	0.58	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluoropentanoic acid	0.59		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
HFPODA	<0.96		1.9	0.96	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
DONA	<0.19		2.9	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
Perfluoroundecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
6:2 Fluorotelomer sulfonic acid	34		1.9	0.58	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	12/07/22 16:26	12/09/22 05:01	1

Client Sample ID: NOR-14-S-04-06

Lab Sample ID: 410-105576-26

Date Collected: 11/11/22 08:40
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 96.2

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*45*		*10 - 200*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
M2-8:2 FTS	*57*		*15 - 200*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
M2-6:2 FTS	*49*		*10 - 200*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C5 PFHxA	*32*		*10 - 174*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C4 PFHpA	*37*		*10 - 178*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C8 PFOA	*37*		*26 - 159*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C9 PFNA	*50*		*26 - 165*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C6 PFDA	*45*		*26 - 161*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C7 PFUnA	*52*		*12 - 173*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C2-PFDoDA	*50*		*11 - 166*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C2 PFTeDA	*54*		*10 - 169*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C3 PFBS	*78*		*27 - 179*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C3 PFHxS	*75*		*24 - 171*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C8 PFOS	*88*		*41 - 154*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
d3-NMeFOSAA	*7*	**5-*	*10 - 178*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
d5-NEtFOSAA	*8*	**5-*	*10 - 193*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C8 FOSA	*99*		*14 - 163*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C4 PFBA	*34*		*28 - 153*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C5 PFPeA	*35*		*24 - 161*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
d7-N-MeFOSE-M	*111*		*10 - 179*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
d3-NMePFOSA	*97*		*10 - 175*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
d9-N-EtFOSE-M	*126*		*10 - 185*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
d5-NEtPFOSA	*97*		*10 - 180*	*12/07/22 16:26*	*12/09/22 05:01*	*1*
13C3 HFPO-DA	*40*		*10 - 169*	*12/07/22 16:26*	*12/09/22 05:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.8**		1.0	1.0	%			11/12/22 14:50	1

Client Sample ID: NOR-14-S-06-08

Lab Sample ID: 410-105576-27

Date Collected: 11/11/22 08:43
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 97.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.49**	**J H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluoroheptanoic acid	**0.49**	**J H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorooctanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorononanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorodecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorotridecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorotetradecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorobutanesulfonic acid	<0.39	H cn	2.0	0.39	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorohexanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorooctanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
NEtFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
NMeFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
10:2 FTS	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluoropentanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluoroheptanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorononanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1

Client Sample ID: NOR-14-S-06-08

Date Collected: 11/11/22 08:43
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-27

Matrix: Solid
Percent Solids: 97.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorooctanesulfonamide	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorohexadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorooctadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorobutanoic acid	<0.79	H cn	2.0	0.79	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluoropentanoic acid	**0.44**	**J H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
NMeFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
NMeFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
NEtFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
NEtFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
HFPODA	<0.99	H cn	2.0	0.99	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
DONA	<0.20	H cn	3.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
9Cl-PF3ONS	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
11Cl-PF3OUdS	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluorododecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
4:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
Perfluoroundecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
6:2 Fluorotelomer sulfonic acid	**25**	**H cn**	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1
8:2 Fluorotelomer sulfonic acid	<0.59	H cn	3.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*75*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
M2-8:2 FTS	*70*	*cn*	*15 - 200*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
M2-6:2 FTS	*69*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C5 PFHxA	*65*	*cn*	*10 - 174*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C4 PFHpA	*66*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C8 PFOA	*66*	*cn*	*26 - 159*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C9 PFNA	*79*	*cn*	*26 - 165*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C6 PFDA	*78*	*cn*	*26 - 161*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C7 PFUnA	*75*	*cn*	*12 - 173*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C2-PFDoDA	*73*	*cn*	*11 - 166*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C2 PFTeDA	*78*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C3 PFBS	*77*	*cn*	*27 - 179*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C3 PFHxS	*78*	*cn*	*24 - 171*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C8 PFOS	*86*	*cn*	*41 - 154*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
d3-NMeFOSAA	*12*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
d5-NEtFOSAA	*15*	*cn*	*10 - 193*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C8 FOSA	*86*	*cn*	*14 - 163*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C4 PFBA	*67*	*cn*	*28 - 153*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C5 PFPeA	*64*	*cn*	*24 - 161*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
d7-N-MeFOSE-M	*88*	*cn*	*10 - 179*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
d3-NMePFOSA	*80*	*cn*	*10 - 175*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
d9-N-EtFOSE-M	*87*	*cn*	*10 - 185*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
d5-NEtPFOSA	*82*	*cn*	*10 - 180*	*12/29/22 21:37*	*12/31/22 11:31*	*1*
13C3 HFPO-DA	*69*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 11:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.4**		1.0	1.0	%			11/13/22 19:10	1

Client Sample ID: NOR-14-S-08-10

Date Collected: 11/11/22 08:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-28

Matrix: Solid
Percent Solids: 96.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.78**	**H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluoroheptanoic acid	**1.0**	**H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorooctanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorononanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorodecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorotridecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorotetradecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorobutanesulfonic acid	<0.40	H cn	2.0	0.40	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorohexanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorooctanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
NEtFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
NMeFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
10:2 FTS	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluoropentanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluoroheptanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorononanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorodecanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorooctanesulfonamide	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorohexadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorooctadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorobutanoic acid	<0.79	H cn	2.0	0.79	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluoropentanoic acid	**0.48**	**J H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
NMeFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
NMeFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
NEtFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
NEtFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
HFPODA	<0.99	H cn	2.0	0.99	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
DONA	<0.20	H cn	3.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
9Cl-PF3ONS	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
11Cl-PF3OUdS	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluorododecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
4:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
Perfluoroundecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
6:2 Fluorotelomer sulfonic acid	**47**	**H cn**	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1
8:2 Fluorotelomer sulfonic acid	<0.59	H cn	3.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*89*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
M2-8:2 FTS	*84*	*cn*	*15 - 200*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
M2-6:2 FTS	*90*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
13C5 PFHxA	*82*	*cn*	*10 - 174*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
13C4 PFHpA	*85*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
13C8 PFOA	*85*	*cn*	*26 - 159*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
13C9 PFNA	*99*	*cn*	*26 - 165*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
13C6 PFDA	*86*	*cn*	*26 - 161*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
13C7 PFUnA	*89*	*cn*	*12 - 173*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
13C2-PFDoDA	*92*	*cn*	*11 - 166*	*12/29/22 21:37*	*12/31/22 11:43*	*1*
13C2 PFTeDA	*84*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 11:43*	*1*

Client Sample ID: NOR-14-S-08-10

Lab Sample ID: 410-105576-28

Date Collected: 11/11/22 08:45
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 96.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	97	cn	27 - 179	12/29/22 21:37	12/31/22 11:43	1
13C3 PFHxS	103	cn	24 - 171	12/29/22 21:37	12/31/22 11:43	1
13C8 PFOS	111	cn	41 - 154	12/29/22 21:37	12/31/22 11:43	1
d3-NMeFOSAA	18	cn	10 - 178	12/29/22 21:37	12/31/22 11:43	1
d5-NEtFOSAA	20	cn	10 - 193	12/29/22 21:37	12/31/22 11:43	1
13C8 FOSA	86	cn	14 - 163	12/29/22 21:37	12/31/22 11:43	1
13C4 PFBA	78	cn	28 - 153	12/29/22 21:37	12/31/22 11:43	1
13C5 PFPeA	75	cn	24 - 161	12/29/22 21:37	12/31/22 11:43	1
d7-N-MeFOSE-M	84	cn	10 - 179	12/29/22 21:37	12/31/22 11:43	1
d3-NMePFOSA	80	cn	10 - 175	12/29/22 21:37	12/31/22 11:43	1
d9-N-EtFOSE-M	93	cn	10 - 185	12/29/22 21:37	12/31/22 11:43	1
d5-NEtPFOSA	82	cn	10 - 180	12/29/22 21:37	12/31/22 11:43	1
13C3 HFPO-DA	79	cn	10 - 169	12/29/22 21:37	12/31/22 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.7**		1.0	1.0	%			11/13/22 19:10	1

Client Sample ID: NOR-14-S-15-20

Lab Sample ID: 410-105576-29

Date Collected: 11/11/22 09:00
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 95.5

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.47**	**J H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluoroheptanoic acid	**0.57**	**J H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorooctanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorononanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorodecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorotridecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorotetradecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorobutanesulfonic acid	<0.40	H cn	2.0	0.40	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorohexanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorooctanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
NEtFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
NMeFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
10:2 FTS	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluoropentanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluoroheptanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorononanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorodecanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorooctanesulfonamide	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorohexadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorooctadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorobutanoic acid	<0.79	H cn	2.0	0.79	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluoropentanoic acid	**0.60**	**H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
NMeFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
NMeFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1

Client Sample ID: NOR-14-S-15-20

Lab Sample ID: 410-105576-29

Date Collected: 11/11/22 09:00
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 95.5

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
NEtFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
HFPODA	<0.99	H cn	2.0	0.99	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
DONA	<0.20	H cn	3.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
9Cl-PF3ONS	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
11Cl-PF3OUdS	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluorododecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
4:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
Perfluoroundecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
6:2 Fluorotelomer sulfonic acid	**17**	**H cn**	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1
8:2 Fluorotelomer sulfonic acid	<0.59	H cn	3.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 11:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*98*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
M2-8:2 FTS	*94*	*cn*	*15 - 200*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
M2-6:2 FTS	*93*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C5 PFHxA	*100*	*cn*	*10 - 174*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C4 PFHpA	*97*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C8 PFOA	*98*	*cn*	*26 - 159*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C9 PFNA	*104*	*cn*	*26 - 165*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C6 PFDA	*92*	*cn*	*26 - 161*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C7 PFUnA	*103*	*cn*	*12 - 173*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C2-PFDoDA	*101*	*cn*	*11 - 166*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C2 PFTeDA	*95*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C3 PFBS	*99*	*cn*	*27 - 179*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C3 PFHxS	*98*	*cn*	*24 - 171*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C8 PFOS	*110*	*cn*	*41 - 154*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
d3-NMeFOSAA	*12*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
d5-NEtFOSAA	*13*	*cn*	*10 - 193*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C8 FOSA	*104*	*cn*	*14 - 163*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C4 PFBA	*96*	*cn*	*28 - 153*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C5 PFPeA	*91*	*cn*	*24 - 161*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
d7-N-MeFOSE-M	*101*	*cn*	*10 - 179*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
d3-NMePFOSA	*105*	*cn*	*10 - 175*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
d9-N-EtFOSE-M	*103*	*cn*	*10 - 185*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
d5-NEtPFOSA	*104*	*cn*	*10 - 180*	*12/29/22 21:37*	*12/31/22 11:54*	*1*
13C3 HFPO-DA	*96*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 11:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.5**		1.0	1.0	%			11/13/22 19:10	1

Client Sample ID: NOR-18-S-00-01

Lab Sample ID: 410-105576-30

Date Collected: 11/11/22 10:40
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.89**		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluoroheptanoic acid	**0.69**		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorooctanoic acid	**0.79**		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1

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

Job ID: 410-105576-1

Client Sample ID: NOR-18-S-00-01
Date Collected: 11/11/22 10:40
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-30
Matrix: Solid
Percent Solids: 92.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	**0.80**		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorodecanoic acid	**0.36**	**J**	0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorotridecanoic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorotetradecanoic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorobutanesulfonic acid	<0.42		2.1	0.42	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorohexanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorooctanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
10:2 FTS	<0.63	cn	2.1	0.63	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluoropentanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluoroheptanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorononanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorodecanesulfonic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorooctanesulfonamide	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorohexadecanoic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorooctadecanoic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorobutanoic acid	<0.84		2.1	0.84	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluoropentanoic acid	**1.7**		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
NMeFOSE	<0.53		2.1	0.53	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
NMeFOSA	<0.53		2.1	0.53	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
NEtFOSE	<0.53		2.1	0.53	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
NEtFOSA	<0.53		2.1	0.53	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
HFPODA	<1.1		2.1	1.1	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
DONA	<0.21		3.2	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
11Cl-PF3OUdS	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluorododecanoic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
4:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
Perfluoroundecanoic acid	<0.21		0.63	0.21	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
6:2 Fluorotelomer sulfonic acid	<0.63		2.1	0.63	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1
8:2 Fluorotelomer sulfonic acid	<0.63		3.2	0.63	ng/g	☼	12/07/22 16:26	12/09/22 05:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
M2-8:2 FTS	*112*		*15 - 200*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
M2-6:2 FTS	*116*		*10 - 200*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C5 PFHxA	*76*		*10 - 174*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C4 PFHpA	*76*		*10 - 178*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C8 PFOA	*76*		*26 - 159*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C9 PFNA	*93*		*26 - 165*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C6 PFDA	*83*		*26 - 161*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C7 PFUnA	*88*		*12 - 173*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C2-PFDoDA	*82*		*11 - 166*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C2 PFTeDA	*96*		*10 - 169*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C3 PFBS	*94*		*27 - 179*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C3 PFHxS	*93*		*24 - 171*	*12/07/22 16:26*	*12/09/22 05:12*	*1*
13C8 PFOS	*107*		*41 - 154*	*12/07/22 16:26*	*12/09/22 05:12*	*1*

Client Sample ID: NOR-18-S-00-01

Lab Sample ID: 410-105576-30

Date Collected: 11/11/22 10:40
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	37		10 - 178	12/07/22 16:26	12/09/22 05:12	1
d5-NEtFOSAA	52		10 - 193	12/07/22 16:26	12/09/22 05:12	1
13C8 FOSA	79		14 - 163	12/07/22 16:26	12/09/22 05:12	1
13C4 PFBA	76		28 - 153	12/07/22 16:26	12/09/22 05:12	1
13C5 PFPeA	76		24 - 161	12/07/22 16:26	12/09/22 05:12	1
d7-N-MeFOSE-M	83		10 - 179	12/07/22 16:26	12/09/22 05:12	1
d3-NMePFOSA	71		10 - 175	12/07/22 16:26	12/09/22 05:12	1
d9-N-EtFOSE-M	91		10 - 185	12/07/22 16:26	12/09/22 05:12	1
d5-NEtPFOSA	78		10 - 180	12/07/22 16:26	12/09/22 05:12	1
13C3 HFPO-DA	71		10 - 169	12/07/22 16:26	12/09/22 05:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.9		1.0	1.0	%			11/12/22 14:50	1

Client Sample ID: NOR-18-S-01-02

Lab Sample ID: 410-105576-31

Date Collected: 11/11/22 10:43
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 93.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	0.81	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluoroheptanoic acid	1.0	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorooctanoic acid	0.28	J H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorononanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorodecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorotridecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorotetradecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorobutanesulfonic acid	<0.39	H cn	2.0	0.39	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorohexanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorooctanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
NEtFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
NMeFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
10:2 FTS	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluoropentanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluoroheptanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorononanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorodecanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorooctanesulfonamide	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorohexadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorooctadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorobutanoic acid	<0.79	H cn	2.0	0.79	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluoropentanoic acid	0.84	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
NMeFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
NMeFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
NEtFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
NEtFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
HFPODA	<0.99	H cn	2.0	0.99	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1

Client Sample ID: NOR-18-S-01-02

Lab Sample ID: 410-105576-31

Date Collected: 11/11/22 10:43
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 93.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	<0.20	H cn	3.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
9Cl-PF3ONS	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
11Cl-PF3OUdS	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluorododecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
4:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
Perfluoroundecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
6:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1
8:2 Fluorotelomer sulfonic acid	<0.59	H cn	3.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*52*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
M2-8:2 FTS	*54*	*cn*	*15 - 200*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
M2-6:2 FTS	*55*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C5 PFHxA	*60*	*cn*	*10 - 174*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C4 PFHpA	*59*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C8 PFOA	*57*	*cn*	*26 - 159*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C9 PFNA	*65*	*cn*	*26 - 165*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C6 PFDA	*57*	*cn*	*26 - 161*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C7 PFUnA	*62*	*cn*	*12 - 173*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C2-PFDoDA	*66*	*cn*	*11 - 166*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C2 PFTeDA	*64*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C3 PFBS	*79*	*cn*	*27 - 179*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C3 PFHxS	*86*	*cn*	*24 - 171*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C8 PFOS	*89*	*cn*	*41 - 154*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
d3-NMeFOSAA	*5*	**5- cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
d5-NEtFOSAA	*7*	**5- cn*	*10 - 193*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C8 FOSA	*96*	*cn*	*14 - 163*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C4 PFBA	*51*	*cn*	*28 - 153*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C5 PFPeA	*51*	*cn*	*24 - 161*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
d7-N-MeFOSE-M	*93*	*cn*	*10 - 179*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
d3-NMePFOSA	*94*	*cn*	*10 - 175*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
d9-N-EtFOSE-M	*94*	*cn*	*10 - 185*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
d5-NEtPFOSA	*94*	*cn*	*10 - 180*	*12/29/22 21:37*	*12/31/22 12:05*	*1*
13C3 HFPO-DA	*71*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 12:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.9**		1.0	1.0	%			11/13/22 19:10	1

Client Sample ID: NOR-18-S-03-04

Lab Sample ID: 410-105576-32

Date Collected: 11/11/22 10:45
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 95.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.23**	**J H cn**	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluoroheptanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorooctanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorononanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorodecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorotridecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1

Client Sample ID: NOR-18-S-03-04

Date Collected: 11/11/22 10:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-32

Matrix: Solid
Percent Solids: 95.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorobutanesulfonic acid	<0.40	H cn	2.0	0.40	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorohexanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorooctanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
NEtFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
NMeFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
10:2 FTS	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluoropentanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluoroheptanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorononanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorodecanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorooctanesulfonamide	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorohexadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorooctadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorobutanoic acid	<0.79	H cn	2.0	0.79	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluoropentanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
NMeFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
NMeFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
NEtFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
NEtFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
HFPODA	<0.99	H cn	2.0	0.99	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
DONA	<0.20	H cn	3.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
9Cl-PF3ONS	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
11Cl-PF3OUdS	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluorododecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
4:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
Perfluoroundecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
6:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1
8:2 Fluorotelomer sulfonic acid	<0.59	H cn	3.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*57*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
M2-8:2 FTS	*63*	*cn*	*15 - 200*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
M2-6:2 FTS	*51*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C5 PFHxA	*52*	*cn*	*10 - 174*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C4 PFHpA	*52*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C8 PFOA	*50*	*cn*	*26 - 159*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C9 PFNA	*60*	*cn*	*26 - 165*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C6 PFDA	*55*	*cn*	*26 - 161*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C7 PFUnA	*55*	*cn*	*12 - 173*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C2-PFDoDA	*60*	*cn*	*11 - 166*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C2 PFTeDA	*61*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C3 PFBS	*84*	*cn*	*27 - 179*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C3 PFHxS	*85*	*cn*	*24 - 171*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C8 PFOS	*94*	*cn*	*41 - 154*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
d3-NMeFOSAA	*5*	**5- cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
d5-NEtFOSAA	*7*	**5- cn*	*10 - 193*	*12/29/22 21:37*	*12/31/22 12:16*	*1*
13C8 FOSA	*109*	*cn*	*14 - 163*	*12/29/22 21:37*	*12/31/22 12:16*	*1*

Client Sample ID: NOR-18-S-03-04

Lab Sample ID: 410-105576-32

Date Collected: 11/11/22 10:45
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 95.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	49	cn	28 - 153	12/29/22 21:37	12/31/22 12:16	1
13C5 PFPeA	50	cn	24 - 161	12/29/22 21:37	12/31/22 12:16	1
d7-N-MeFOSE-M	105	cn	10 - 179	12/29/22 21:37	12/31/22 12:16	1
d3-NMePFOSA	95	cn	10 - 175	12/29/22 21:37	12/31/22 12:16	1
d9-N-EtFOSE-M	105	cn	10 - 185	12/29/22 21:37	12/31/22 12:16	1
d5-NEtPFOSA	93	cn	10 - 180	12/29/22 21:37	12/31/22 12:16	1
13C3 HFPO-DA	59	cn	10 - 169	12/29/22 21:37	12/31/22 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.6		1.0	1.0	%			11/13/22 19:10	1

Client Sample ID: NOR-19-S-00-01

Lab Sample ID: 410-105576-33

Date Collected: 11/11/22 11:10
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 86.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	0.40	J	0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluoroheptanoic acid	0.42	J	0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorooctanoic acid	0.60	J	0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorononanoic acid	0.62	J	0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorodecanoic acid	0.27	J	0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorotridecanoic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorotetradecanoic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorobutanesulfonic acid	<0.44		2.2	0.44	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorohexanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorooctanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
NEtFOSAA	<0.22		2.2	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
NMeFOSAA	<0.22		2.2	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
10:2 FTS	<0.66	cn	2.2	0.66	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluoropentanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluoroheptanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorononanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorodecanesulfonic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22		2.2	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorooctanesulfonamide	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorohexadecanoic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorooctadecanoic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluorobutanoic acid	<0.87		2.2	0.87	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluoropentanoic acid	0.85		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
NMeFOSE	<0.55		2.2	0.55	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
NMeFOSA	<0.55		2.2	0.55	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
NEtFOSE	<0.55		2.2	0.55	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
NEtFOSA	<0.55		2.2	0.55	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
HFPODA	<1.1		2.2	1.1	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
DONA	<0.22		3.3	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
9Cl-PF3ONS	<0.22		2.2	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
11Cl-PF3OUdS	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1

Client Sample ID: NOR-19-S-00-01

Lab Sample ID: 410-105576-33

Date Collected: 11/11/22 11:10
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 86.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	<0.22		0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
4:2 Fluorotelomer sulfonic acid	<0.66		2.2	0.66	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
Perfluoroundecanoic acid	**0.26**	**J**	0.66	0.22	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
6:2 Fluorotelomer sulfonic acid	<0.66		2.2	0.66	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1
8:2 Fluorotelomer sulfonic acid	<0.66		3.3	0.66	ng/g	☼	12/07/22 16:26	12/09/22 05:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
M2-8:2 FTS	*136*		*15 - 200*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
M2-6:2 FTS	*110*		*10 - 200*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C5 PFHxA	*69*		*10 - 174*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C4 PFHpA	*78*		*10 - 178*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C8 PFOA	*76*		*26 - 159*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C9 PFNA	*95*		*26 - 165*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C6 PFDA	*94*		*26 - 161*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C7 PFUnA	*92*		*12 - 173*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C2-PFDoDA	*101*		*11 - 166*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C2 PFTeDA	*105*		*10 - 169*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C3 PFBS	*94*		*27 - 179*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C3 PFHxS	*95*		*24 - 171*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C8 PFOS	*100*		*41 - 154*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
d3-NMeFOSAA	*59*		*10 - 178*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
d5-NEtFOSAA	*87*		*10 - 193*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C8 FOSA	*95*		*14 - 163*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C4 PFBA	*73*		*28 - 153*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C5 PFPeA	*77*		*24 - 161*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
d3-NMePFOSA	*82*		*10 - 175*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
d9-N-EtFOSE-M	*111*		*10 - 185*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
d5-NEtPFOSA	*86*		*10 - 180*	*12/07/22 16:26*	*12/09/22 05:23*	*1*
13C3 HFPO-DA	*64*		*10 - 169*	*12/07/22 16:26*	*12/09/22 05:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.6**		1.0	1.0	%			11/12/22 14:50	1

Client Sample ID: NOR-19-S-01-02

Lab Sample ID: 410-105576-34

Date Collected: 11/11/22 11:13
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 90.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.42**	**J H cn**	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluoroheptanoic acid	**0.40**	**J H cn**	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorooctanoic acid	**0.48**	**J H cn**	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorononanoic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorodecanoic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorotridecanoic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorotetradecanoic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorobutanesulfonic acid	<0.42	H cn	2.1	0.42	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorohexanesulfonic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1

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

Job ID: 410-105576-1

Client Sample ID: NOR-19-S-01-02
Date Collected: 11/11/22 11:13
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-34
Matrix: Solid
Percent Solids: 90.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
NEtFOSAA	<0.21	H cn	2.1	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
NMeFOSAA	<0.21	H cn	2.1	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
10:2 FTS	<0.63	H cn	2.1	0.63	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluoropentanesulfonic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluoroheptanesulfonic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorononanesulfonic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorodecanesulfonic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21	H cn	2.1	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorooctanesulfonamide	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorohexadecanoic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorooctadecanoic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorobutanoic acid	<0.84	H cn	2.1	0.84	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluoropentanoic acid	**0.65**	**H cn**	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
NMeFOSE	<0.52	H cn	2.1	0.52	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
NMeFOSA	<0.52	H cn	2.1	0.52	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
NEtFOSE	<0.52	H cn	2.1	0.52	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
NEtFOSA	<0.52	H cn	2.1	0.52	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
HFPODA	<1.0	H cn	2.1	1.0	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
DONA	<0.21	H cn	3.1	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
9Cl-PF3ONS	<0.21	H cn	2.1	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
11Cl-PF3OUdS	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluorododecanoic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
4:2 Fluorotelomer sulfonic acid	<0.63	H cn	2.1	0.63	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
Perfluoroundecanoic acid	<0.21	H cn	0.63	0.21	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
6:2 Fluorotelomer sulfonic acid	<0.63	H cn	2.1	0.63	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1
8:2 Fluorotelomer sulfonic acid	<0.63	H cn	3.1	0.63	ng/g	☼	12/29/22 21:37	12/31/22 12:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
M2-8:2 FTS	*79*	*cn*	*15 - 200*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
M2-6:2 FTS	*66*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C5 PFHxA	*76*	*cn*	*10 - 174*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C4 PFHpA	*76*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C8 PFOA	*77*	*cn*	*26 - 159*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C9 PFNA	*90*	*cn*	*26 - 165*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C6 PFDA	*84*	*cn*	*26 - 161*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C7 PFUnA	*80*	*cn*	*12 - 173*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C2-PFDoDA	*90*	*cn*	*11 - 166*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C2 PFTeDA	*87*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C3 PFBS	*97*	*cn*	*27 - 179*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C3 PFHxS	*100*	*cn*	*24 - 171*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C8 PFOS	*111*	*cn*	*41 - 154*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
d3-NMeFOSAA	*3*	**5- cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
d5-NEtFOSAA	*4*	**5- cn*	*10 - 193*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C8 FOSA	*95*	*cn*	*14 - 163*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C4 PFBA	*69*	*cn*	*28 - 153*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
13C5 PFPeA	*68*	*cn*	*24 - 161*	*12/29/22 21:37*	*12/31/22 12:27*	*1*
d7-N-MeFOSE-M	*95*	*cn*	*10 - 179*	*12/29/22 21:37*	*12/31/22 12:27*	*1*

Client Sample ID: NOR-19-S-01-02

Lab Sample ID: 410-105576-34
Date Collected: 11/11/22 11:13
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 90.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	90	cn	10 - 175	12/29/22 21:37	12/31/22 12:27	1
d9-N-EtFOSE-M	98	cn	10 - 185	12/29/22 21:37	12/31/22 12:27	1
d5-NEtPFOSA	88	cn	10 - 180	12/29/22 21:37	12/31/22 12:27	1
13C3 HFPO-DA	90	cn	10 - 169	12/29/22 21:37	12/31/22 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.2		1.0	1.0	%			11/13/22 19:10	1

Client Sample ID: NOR-19-S-01-02 DUP

Lab Sample ID: 410-105576-35
Date Collected: 11/11/22 11:13
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	0.41	J H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluoroheptanoic acid	0.36	J H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorooctanoic acid	0.59	J H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorononanoic acid	0.25	J H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorodecanoic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorotridecanoic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorotetradecanoic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorobutanesulfonic acid	<0.43	H cn	2.2	0.43	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorohexanesulfonic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorooctanesulfonic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
NEtFOSAA	<0.22	H cn	2.2	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
NMeFOSAA	<0.22	H cn	2.2	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
10:2 FTS	<0.65	H cn	2.2	0.65	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluoropentanesulfonic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluoroheptanesulfonic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorononanesulfonic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorodecanesulfonic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22	H cn	2.2	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorooctanesulfonamide	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorohexadecanoic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorooctadecanoic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorobutanoic acid	<0.87	H cn	2.2	0.87	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluoropentanoic acid	0.73	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
NMeFOSE	<0.54	H cn	2.2	0.54	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
NMeFOSA	<0.54	H cn	2.2	0.54	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
NEtFOSE	<0.54	H cn	2.2	0.54	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
NEtFOSA	<0.54	H cn	2.2	0.54	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
HFPODA	<1.1	H cn	2.2	1.1	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
DONA	<0.22	H cn	3.3	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
9Cl-PF3ONS	<0.22	H cn	2.2	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
11Cl-PF3OUdS	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluorododecanoic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
4:2 Fluorotelomer sulfonic acid	<0.65	H cn	2.2	0.65	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
Perfluoroundecanoic acid	<0.22	H cn	0.65	0.22	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1

Client Sample ID: NOR-19-S-01-02 DUP

Lab Sample ID: 410-105576-35
Date Collected: 11/11/22 11:13
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	<0.65	H cn	2.2	0.65	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1
8:2 Fluorotelomer sulfonic acid	<0.65	H cn	3.3	0.65	ng/g	☼	12/29/22 21:37	12/31/22 12:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*71*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
M2-8:2 FTS	*85*	*cn*	*15 - 200*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
M2-6:2 FTS	*78*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C5 PFHxA	*75*	*cn*	*10 - 174*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C4 PFHpA	*75*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C8 PFOA	*77*	*cn*	*26 - 159*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C9 PFNA	*92*	*cn*	*26 - 165*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C6 PFDA	*89*	*cn*	*26 - 161*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C7 PFUnA	*88*	*cn*	*12 - 173*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C2-PFDoDA	*91*	*cn*	*11 - 166*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C2 PFTeDA	*97*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C3 PFBS	*97*	*cn*	*27 - 179*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C3 PFHxS	*94*	*cn*	*24 - 171*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C8 PFOS	*114*	*cn*	*41 - 154*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
d3-NMeFOSAA	*9*	**5- cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
d5-NEtFOSAA	*11*	*cn*	*10 - 193*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C8 FOSA	*99*	*cn*	*14 - 163*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C4 PFBA	*71*	*cn*	*28 - 153*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C5 PFPeA	*69*	*cn*	*24 - 161*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
d7-N-MeFOSE-M	*93*	*cn*	*10 - 179*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
d3-NMePFOSA	*91*	*cn*	*10 - 175*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
d9-N-EtFOSE-M	*94*	*cn*	*10 - 185*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
d5-NEtPFOSA	*88*	*cn*	*10 - 180*	*12/29/22 21:37*	*12/31/22 12:38*	*1*
13C3 HFPO-DA	*80*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 12:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.7**		1.0	1.0	%			11/13/22 19:10	1

Client Sample ID: NOR-19-S-03-04

Lab Sample ID: 410-105576-36
Date Collected: 11/11/22 11:15
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 97.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluoroheptanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorooctanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorononanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorodecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorotridecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorotetradecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorobutanesulfonic acid	<0.39	H cn	2.0	0.39	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorohexanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorooctanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
NEtFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
NMeFOSAA	<0.20	H F1 cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1

Client Sample ID: NOR-19-S-03-04

Date Collected: 11/11/22 11:15
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-36

Matrix: Solid
Percent Solids: 97.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluoropentanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluoroheptanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorononanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorodecanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorooctanesulfonamide	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorohexadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorooctadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorobutanoic acid	<0.79	H cn	2.0	0.79	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluoropentanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
NMeFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
NMeFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
NEtFOSE	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
NEtFOSA	<0.49	H cn	2.0	0.49	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
HFPODA	<0.99	H cn	2.0	0.99	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
DONA	<0.20	H cn	3.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
9Cl-PF3ONS	<0.20	H cn	2.0	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
11Cl-PF3OUdS	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluorododecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
4:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
Perfluoroundecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
6:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1
8:2 Fluorotelomer sulfonic acid	<0.59	H cn	3.0	0.59	ng/g	☼	12/29/22 21:37	12/31/22 12:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*41*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
M2-8:2 FTS	*44*	*cn*	*15 - 200*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
M2-6:2 FTS	*38*	*cn*	*10 - 200*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C5 PFHxA	*39*	*cn*	*10 - 174*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C4 PFHpA	*41*	*cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C8 PFOA	*37*	*cn*	*26 - 159*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C9 PFNA	*45*	*cn*	*26 - 165*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C6 PFDA	*43*	*cn*	*26 - 161*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C7 PFUnA	*40*	*cn*	*12 - 173*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C2-PFDoDA	*46*	*cn*	*11 - 166*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C2 PFTeDA	*44*	*cn*	*10 - 169*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C3 PFBS	*76*	*cn*	*27 - 179*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C3 PFHxS	*82*	*cn*	*24 - 171*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C8 PFOS	*85*	*cn*	*41 - 154*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
d3-NMeFOSAA	*2*	**5- cn*	*10 - 178*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
d5-NEtFOSAA	*2*	**5- cn*	*10 - 193*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C8 FOSA	*104*	*cn*	*14 - 163*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C4 PFBA	*35*	*cn*	*28 - 153*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
13C5 PFPeA	*34*	*cn*	*24 - 161*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
d7-N-MeFOSE-M	*108*	*cn*	*10 - 179*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
d3-NMePFOSA	*97*	*cn*	*10 - 175*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
d9-N-EtFOSE-M	*104*	*cn*	*10 - 185*	*12/29/22 21:37*	*12/31/22 12:49*	*1*
d5-NEtPFOSA	*89*	*cn*	*10 - 180*	*12/29/22 21:37*	*12/31/22 12:49*	*1*

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

Job ID: 410-105576-1

Client Sample ID: NOR-19-S-03-04
Date Collected: 11/11/22 11:15
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-36
Matrix: Solid
Percent Solids: 97.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	52	cn	10 - 169	12/29/22 21:37	12/31/22 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.4		1.0	1.0	%			11/13/22 19:10	1

Isotope Dilution Summary

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

Job ID: 410-105576-1

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 (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
410-105576-1	RW15-37-S-00-01	92	105	103	63	69	70	79	74
410-105576-4	RW15-38-S-00-01	115	139	122	69	73	75	87	85
410-105576-7	RW15-39-S-00-01	110	144	114	71	78	76	87	87
410-105576-8	RW15-39-S-00-01 DUP	114	138	113	67	72	71	84	80
410-105576-11	RW15-40-S-00-01	105	159	128	82	87	84	88	85
410-105576-14	RW15-33-S-00-01	93	126	97	78	81	84	95	84
410-105576-17	RW15-34-S-00-01	88	118	99	78	80	80	83	79
410-105576-20	RW15-35-S-00-01	86	113	88	73	79	77	79	77
410-105576-23	RW15-36-S-00-01	79	99 cn	87	72	72	73	78	72
410-105576-26	NOR-14-S-04-06	45	57	49	32	37	37	50	45
410-105576-27	NOR-14-S-06-08	75 cn	70 cn	69 cn	65 cn	66 cn	66 cn	79 cn	78 cn
410-105576-28	NOR-14-S-08-10	89 cn	84 cn	90 cn	82 cn	85 cn	85 cn	99 cn	86 cn
410-105576-29	NOR-14-S-15-20	98 cn	94 cn	93 cn	100 cn	97 cn	98 cn	104 cn	92 cn
410-105576-30	NOR-18-S-00-01	93	112	116	76	76	76	93	83
410-105576-31	NOR-18-S-01-02	52 cn	54 cn	55 cn	60 cn	59 cn	57 cn	65 cn	57 cn
410-105576-32	NOR-18-S-03-04	57 cn	63 cn	51 cn	52 cn	52 cn	50 cn	60 cn	55 cn
410-105576-33	NOR-19-S-00-01	86	136	110	69	78	76	95	94
410-105576-34	NOR-19-S-01-02	67 cn	79 cn	66 cn	76 cn	76 cn	77 cn	90 cn	84 cn
410-105576-35	NOR-19-S-01-02 DUP	71 cn	85 cn	78 cn	75 cn	75 cn	77 cn	92 cn	89 cn
410-105576-36	NOR-19-S-03-04	41 cn	44 cn	38 cn	39 cn	41 cn	37 cn	45 cn	43 cn
410-105576-36 MS	NOR-19-S-03-04	45	50	45	40	42	41	46	42
410-105576-36 MSD	NOR-19-S-03-04	36	39	35	32	32	33	41	35
LCS 410-318369/2-B	Lab Control Sample	87	97	86	83	86	84	86	85
LCS 410-318999/2-B	Lab Control Sample	86	88	81	85	82	86	89	94
LCS 410-324753/2-B	Lab Control Sample	87	98	99	84	81	82	98	90
LCS 410-331403/2-B	Lab Control Sample	90	94	96	102	99	101	109	103
MB 410-318369/1-B	Method Blank	96	97	93	87	91	86	87	87
MB 410-318999/1-B	Method Blank	93	80	91	92	94	89	93	85
MB 410-324753/1-B	Method Blank	72	89	78	79	85	85	100	87
MB 410-331403/1-B	Method Blank	89	91	85	97	92	89	101	97

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
410-105576-1	RW15-37-S-00-01	80	81	84	76	80	82	38	46
410-105576-4	RW15-38-S-00-01	91	90	89	93	93	103	52	67
410-105576-7	RW15-39-S-00-01	90	91	91	96	95	101	51	65
410-105576-8	RW15-39-S-00-01 DUP	85	80	86	85	92	93	55	69
410-105576-11	RW15-40-S-00-01	82	80	80	88	93	88	81	83
410-105576-14	RW15-33-S-00-01	93	92	82	87	85	93	73	85
410-105576-17	RW15-34-S-00-01	81	82	87	82	81	86	72	81
410-105576-20	RW15-35-S-00-01	78	76	78	78	85	87	51	65
410-105576-23	RW15-36-S-00-01	76	77	80	74	76	85	49	61 cn
410-105576-26	NOR-14-S-04-06	52	50	54	78	75	88	7 *5-	8 *5-
410-105576-27	NOR-14-S-06-08	75 cn	73 cn	78 cn	77 cn	78 cn	86 cn	12 cn	15 cn
410-105576-28	NOR-14-S-08-10	89 cn	92 cn	84 cn	97 cn	103 cn	111 cn	18 cn	20 cn
410-105576-29	NOR-14-S-15-20	103 cn	101 cn	95 cn	99 cn	98 cn	110 cn	12 cn	13 cn
410-105576-30	NOR-18-S-00-01	88	82	96	94	93	107	37	52
410-105576-31	NOR-18-S-01-02	62 cn	66 cn	64 cn	79 cn	86 cn	89 cn	5 *5- cn	7 *5- cn
410-105576-32	NOR-18-S-03-04	55 cn	60 cn	61 cn	84 cn	85 cn	94 cn	5 *5- cn	7 *5- cn

Isotope Dilution Summary

Client: Weston Solutions, Inc. Job ID: 410-105576-1
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	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
410-105576-33	NOR-19-S-00-01	92	101	105	94	95	100	59	87
410-105576-34	NOR-19-S-01-02	80 cn	90 cn	87 cn	97 cn	100 cn	111 cn	3 *5- cn	4 *5- cn
410-105576-35	NOR-19-S-01-02 DUP	88 cn	91 cn	97 cn	97 cn	94 cn	114 cn	9 *5- cn	11 cn
410-105576-36	NOR-19-S-03-04	40 cn	46 cn	44 cn	76 cn	82 cn	85 cn	2 *5- cn	2 *5- cn
410-105576-36 MS	NOR-19-S-03-04	42	44	40	80	86	92	1 *5-	2 *5-
410-105576-36 MSD	NOR-19-S-03-04	37	36	37	71	76	92	2 *5-	1 *5-
LCS 410-318369/2-B	Lab Control Sample	87	86	90	79	86	91	86	81
LCS 410-318999/2-B	Lab Control Sample	91	93	107	91	86	96	83	86
LCS 410-324753/2-B	Lab Control Sample	94	94	98	92	96	105	84	96
LCS 410-331403/2-B	Lab Control Sample	98	98	99	99	98	113	89	87
MB 410-318369/1-B	Method Blank	88	84	84	85	93	91	72	74
MB 410-318999/1-B	Method Blank	84	83	101	87	94	98	71	79
MB 410-324753/1-B	Method Blank	95	94	104	113	92	103	85	93
MB 410-331403/1-B	Method Blank	95	97	97	89	91	104	83	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
410-105576-1	RW15-37-S-00-01	41	59	58	32	7 *5- cn	37	9 *5- cn	51
410-105576-4	RW15-38-S-00-01	63	64	64	50	33 cn	55	36 cn	63
410-105576-7	RW15-39-S-00-01	52	70	67	40	24 cn	45	24 cn	60
410-105576-8	RW15-39-S-00-01 DUP	54	59	61	40	21 cn	47	22 cn	57
410-105576-11	RW15-40-S-00-01	80	79	82	72	64	68	66	75
410-105576-14	RW15-33-S-00-01	81	76	77	78	63	76	70	71
410-105576-17	RW15-34-S-00-01	76	77	77	69	54	68	61	69
410-105576-20	RW15-35-S-00-01	77	71	73	78	65	69	70	71
410-105576-23	RW15-36-S-00-01	69	69	71	71	58	63	60	71
410-105576-26	NOR-14-S-04-06	99	34	35	111	97	126	97	40
410-105576-27	NOR-14-S-06-08	86 cn	67 cn	64 cn	88 cn	80 cn	87 cn	82 cn	69 cn
410-105576-28	NOR-14-S-08-10	86 cn	78 cn	75 cn	84 cn	80 cn	93 cn	82 cn	79 cn
410-105576-29	NOR-14-S-15-20	104 cn	96 cn	91 cn	101 cn	105 cn	103 cn	104 cn	96 cn
410-105576-30	NOR-18-S-00-01	79	76	76	83	71	91	78	71
410-105576-31	NOR-18-S-01-02	96 cn	51 cn	51 cn	93 cn	94 cn	94 cn	94 cn	71 cn
410-105576-32	NOR-18-S-03-04	109 cn	49 cn	50 cn	105 cn	95 cn	105 cn	93 cn	59 cn
410-105576-33	NOR-19-S-00-01	95	73	77	103	82	111	86	64
410-105576-34	NOR-19-S-01-02	95 cn	69 cn	68 cn	95 cn	90 cn	98 cn	88 cn	90 cn
410-105576-35	NOR-19-S-01-02 DUP	99 cn	71 cn	69 cn	93 cn	91 cn	94 cn	88 cn	80 cn
410-105576-36	NOR-19-S-03-04	104 cn	35 cn	34 cn	108 cn	97 cn	104 cn	89 cn	52 cn
410-105576-36 MS	NOR-19-S-03-04	93	37	38	95	82	91	83	55
410-105576-36 MSD	NOR-19-S-03-04	98	30	29	97	79	100	79	46
LCS 410-318369/2-B	Lab Control Sample	31	75	78	41	3 *5-	41	3 *5-	80
LCS 410-318999/2-B	Lab Control Sample	72	85	87	76	56	79	60	78
LCS 410-324753/2-B	Lab Control Sample	83	79	81	90	84	88	80	79
LCS 410-331403/2-B	Lab Control Sample	91	105	103	95	84	94	82	105
MB 410-318369/1-B	Method Blank	56	79	80	57	29	61	29	74
MB 410-318999/1-B	Method Blank	82	86	88	59	65	79	72	88
MB 410-324753/1-B	Method Blank	90	91	98	93	92	111	101	72
MB 410-331403/1-B	Method Blank	84	93	89	89	75	86	71	89

Surrogate Legend

M242FTS = M2-4:2 FTS

Isotope Dilution Summary

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

Job ID: 410-105576-1

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 410-318369/1-B
Matrix: Solid
Analysis Batch: 319100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318369

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/16/22 18:13	11/19/22 02:22	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/16/22 18:13	11/19/22 02:22	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/16/22 18:13	11/19/22 02:22	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/16/22 18:13	11/19/22 02:22	1
HFPODA	<1.0		2.0	1.0	ng/g		11/16/22 18:13	11/19/22 02:22	1
DONA	<0.20		3.0	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/16/22 18:13	11/19/22 02:22	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/16/22 18:13	11/19/22 02:22	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/16/22 18:13	11/19/22 02:22	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/16/22 18:13	11/19/22 02:22	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*96*		*10 - 200*	*11/16/22 18:13*	*11/19/22 02:22*	*1*
M2-8:2 FTS	*97*		*15 - 200*	*11/16/22 18:13*	*11/19/22 02:22*	*1*
M2-6:2 FTS	*93*		*10 - 200*	*11/16/22 18:13*	*11/19/22 02:22*	*1*
13C5 PFHxA	*87*		*10 - 174*	*11/16/22 18:13*	*11/19/22 02:22*	*1*
13C4 PFHpA	*91*		*10 - 178*	*11/16/22 18:13*	*11/19/22 02:22*	*1*
13C8 PFOA	*86*		*26 - 159*	*11/16/22 18:13*	*11/19/22 02:22*	*1*
13C9 PFNA	*87*		*26 - 165*	*11/16/22 18:13*	*11/19/22 02:22*	*1*
13C6 PFDA	*87*		*26 - 161*	*11/16/22 18:13*	*11/19/22 02:22*	*1*
13C7 PFUnA	*88*		*12 - 173*	*11/16/22 18:13*	*11/19/22 02:22*	*1*
13C2-PFDoDA	*84*		*11 - 166*	*11/16/22 18:13*	*11/19/22 02:22*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-318369/1-B
Matrix: Solid
Analysis Batch: 319100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318369

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	84		10 - 169	11/16/22 18:13	11/19/22 02:22	1
13C3 PFBS	85		27 - 179	11/16/22 18:13	11/19/22 02:22	1
13C3 PFHxS	93		24 - 171	11/16/22 18:13	11/19/22 02:22	1
13C8 PFOS	91		41 - 154	11/16/22 18:13	11/19/22 02:22	1
d3-NMeFOSAA	72		10 - 178	11/16/22 18:13	11/19/22 02:22	1
d5-NEtFOSAA	74		10 - 193	11/16/22 18:13	11/19/22 02:22	1
13C8 FOSA	56		14 - 163	11/16/22 18:13	11/19/22 02:22	1
13C4 PFBA	79		28 - 153	11/16/22 18:13	11/19/22 02:22	1
13C5 PFPeA	80		24 - 161	11/16/22 18:13	11/19/22 02:22	1
d7-N-MeFOSE-M	57		10 - 179	11/16/22 18:13	11/19/22 02:22	1
d3-NMePFOSA	29		10 - 175	11/16/22 18:13	11/19/22 02:22	1
d9-N-EtFOSE-M	61		10 - 185	11/16/22 18:13	11/19/22 02:22	1
d5-NEtPFOSA	29		10 - 180	11/16/22 18:13	11/19/22 02:22	1
13C3 HFPO-DA	74		10 - 169	11/16/22 18:13	11/19/22 02:22	1

Lab Sample ID: LCS 410-318369/2-B
Matrix: Solid
Analysis Batch: 319100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318369

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	24.3	24.2		ng/g		100	59 - 132
Perfluoroheptanoic acid	24.3	24.1		ng/g		99	59 - 137
Perfluorooctanoic acid	24.3	24.5		ng/g		101	59 - 131
Perfluorononanoic acid	24.3	25.5		ng/g		105	61 - 134
Perfluorodecanoic acid	24.3	26.5		ng/g		109	56 - 133
Perfluorotridecanoic acid	24.3	25.8		ng/g		106	53 - 143
Perfluorotetradecanoic acid	24.3	25.7		ng/g		106	62 - 134
Perfluorobutanesulfonic acid	21.5	23.3		ng/g		108	54 - 130
Perfluorohexanesulfonic acid	22.1	22.2		ng/g		100	59 - 129
Perfluorooctanesulfonic acid	22.5	22.8		ng/g		102	61 - 126
NEtFOSAA	24.3	27.0		ng/g		111	57 - 127
NMeFOSAA	24.3	24.7		ng/g		102	60 - 134
10:2 FTS	23.4	22.3		ng/g		95	46 - 143
Perfluoropentanesulfonic acid	22.8	25.2		ng/g		110	57 - 133
Perfluoroheptanesulfonic acid	23.1	23.8		ng/g		103	59 - 132
Perfluorononanesulfonic acid	23.3	24.4		ng/g		105	60 - 132
Perfluorodecanesulfonic acid	23.4	23.9		ng/g		102	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	23.5	22.9		ng/g		98	38 - 145
Perfluorooctanesulfonamide	24.3	25.9		ng/g		107	47 - 149
Perfluorohexadecanoic acid	24.3	22.5		ng/g		93	38 - 147
Perfluorooctadecanoic acid	24.3	24.1		ng/g		99	16 - 160
Perfluorobutanoic acid	24.3	23.7		ng/g		98	60 - 128
Perfluoropentanoic acid	24.3	25.2		ng/g		104	58 - 134
NMeFOSE	24.3	24.0		ng/g		99	60 - 130
NMeFOSA	24.3	21.5		ng/g		89	60 - 129
NEtFOSE	24.3	25.9		ng/g		107	60 - 126
NEtFOSA	24.3	22.2		ng/g		91	60 - 123
HFPODA	24.3	22.6		ng/g		93	49 - 135

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-318369/2-B
Matrix: Solid
Analysis Batch: 319100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318369

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	22.9	23.5		ng/g		103	57 - 137
9Cl-PF3ONS	22.6	23.9		ng/g		106	62 - 130
11Cl-PF3OUdS	22.6	24.6		ng/g		109	55 - 135
Perfluorododecanoic acid	24.3	26.2		ng/g		108	60 - 135
4:2 Fluorotelomer sulfonic acid	22.7	24.0		ng/g		106	58 - 131
Perfluoroundecanoic acid	24.3	25.8		ng/g		106	60 - 134
6:2 Fluorotelomer sulfonic acid	23.0	25.2		ng/g		110	59 - 135
8:2 Fluorotelomer sulfonic acid	23.3	22.4		ng/g		96	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*87*		*10 - 200*
M2-8:2 FTS	*97*		*15 - 200*
M2-6:2 FTS	*86*		*10 - 200*
13C5 PFHxA	*83*		*10 - 174*
13C4 PFHpA	*86*		*10 - 178*
13C8 PFOA	*84*		*26 - 159*
13C9 PFNA	*86*		*26 - 165*
13C6 PFDA	*85*		*26 - 161*
13C7 PFUnA	*87*		*12 - 173*
13C2-PFDoDA	*86*		*11 - 166*
13C2 PFTeDA	*90*		*10 - 169*
13C3 PFBS	*79*		*27 - 179*
13C3 PFHxS	*86*		*24 - 171*
13C8 PFOS	*91*		*41 - 154*
d3-NMeFOSAA	*86*		*10 - 178*
d5-NEtFOSAA	*81*		*10 - 193*
13C8 FOSA	*31*		*14 - 163*
13C4 PFBA	*75*		*28 - 153*
13C5 PFPeA	*78*		*24 - 161*
d7-N-MeFOSE-M	*41*		*10 - 179*
d3-NMePFOSA	*3*	*5-	*10 - 175*
d9-N-EtFOSE-M	*41*		*10 - 185*
d5-NEtPFOSA	*3*	*5-	*10 - 180*
13C3 HFPO-DA	*80*		*10 - 169*

Lab Sample ID: MB 410-318999/1-B
Matrix: Solid
Analysis Batch: 320970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-318999/1-B
Matrix: Solid
Analysis Batch: 320970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorooctadecanoic acid	0.201	J	0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/18/22 09:11	11/27/22 18:38	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/18/22 09:11	11/27/22 18:38	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/18/22 09:11	11/27/22 18:38	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/18/22 09:11	11/27/22 18:38	1
HFPODA	<1.0		2.0	1.0	ng/g		11/18/22 09:11	11/27/22 18:38	1
DONA	<0.20		3.0	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/18/22 09:11	11/27/22 18:38	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/18/22 09:11	11/27/22 18:38	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/18/22 09:11	11/27/22 18:38	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/18/22 09:11	11/27/22 18:38	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
M2-8:2 FTS	*80*		*15 - 200*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
M2-6:2 FTS	*91*		*10 - 200*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C5 PFHxA	*92*		*10 - 174*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C4 PFHpA	*94*		*10 - 178*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C8 PFOA	*89*		*26 - 159*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C9 PFNA	*93*		*26 - 165*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C6 PFDA	*85*		*26 - 161*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C7 PFUnA	*84*		*12 - 173*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C2-PFDoDA	*83*		*11 - 166*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C2 PFTeDA	*101*		*10 - 169*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C3 PFBS	*87*		*27 - 179*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C3 PFHxS	*94*		*24 - 171*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C8 PFOS	*98*		*41 - 154*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
d3-NMeFOSAA	*71*		*10 - 178*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
d5-NEtFOSAA	*79*		*10 - 193*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C8 FOSA	*82*		*14 - 163*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C4 PFBA	*86*		*28 - 153*	*11/18/22 09:11*	*11/27/22 18:38*	*1*
13C5 PFPeA	*88*		*24 - 161*	*11/18/22 09:11*	*11/27/22 18:38*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-318999/1-B
Matrix: Solid
Analysis Batch: 320970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318999

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	59		10 - 179	11/18/22 09:11	11/27/22 18:38	1
d3-NMePFOSA	65		10 - 175	11/18/22 09:11	11/27/22 18:38	1
d9-N-EtFOSE-M	79		10 - 185	11/18/22 09:11	11/27/22 18:38	1
d5-NEtPFOSA	72		10 - 180	11/18/22 09:11	11/27/22 18:38	1
13C3 HFPO-DA	88		10 - 169	11/18/22 09:11	11/27/22 18:38	1

Lab Sample ID: LCS 410-318999/2-B
Matrix: Solid
Analysis Batch: 320970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	24.5		ng/g		98	59 - 132
Perfluoroheptanoic acid	25.0	25.7		ng/g		103	59 - 137
Perfluorooctanoic acid	25.0	23.6		ng/g		94	59 - 131
Perfluorononanoic acid	25.0	25.4		ng/g		102	61 - 134
Perfluorodecanoic acid	25.0	23.8		ng/g		95	56 - 133
Perfluorotridecanoic acid	25.0	25.3		ng/g		101	53 - 143
Perfluorotetradecanoic acid	25.0	24.7		ng/g		99	62 - 134
Perfluorobutanesulfonic acid	22.1	22.5		ng/g		102	54 - 130
Perfluorohexanesulfonic acid	22.8	23.0		ng/g		101	59 - 129
Perfluorooctanesulfonic acid	23.1	21.9		ng/g		95	61 - 126
NEtFOSAA	25.0	23.1		ng/g		92	57 - 127
NMeFOSAA	25.0	22.8		ng/g		91	60 - 134
10:2 FTS	24.1	22.1		ng/g		92	46 - 143
Perfluoropentanesulfonic acid	23.5	24.3		ng/g		103	57 - 133
Perfluoroheptanesulfonic acid	23.8	23.2		ng/g		97	59 - 132
Perfluorononanesulfonic acid	24.0	21.7		ng/g		90	60 - 132
Perfluorodecanesulfonic acid	24.1	21.2		ng/g		88	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	22.5		ng/g		93	38 - 145
Perfluorooctanesulfonamide	25.0	26.2		ng/g		105	47 - 149
Perfluorohexadecanoic acid	25.0	19.0		ng/g		76	38 - 147
Perfluorooctadecanoic acid	25.0	20.5		ng/g		82	16 - 160
Perfluorobutanoic acid	25.0	21.4		ng/g		86	60 - 128
Perfluoropentanoic acid	25.0	23.6		ng/g		94	58 - 134
NMeFOSE	25.0	25.1		ng/g		100	60 - 130
NMeFOSA	25.0	27.3		ng/g		109	60 - 129
NEtFOSE	25.0	22.7		ng/g		91	60 - 126
NEtFOSA	25.0	23.9		ng/g		96	60 - 123
HFPODA	25.0	24.5		ng/g		98	49 - 135
DONA	23.6	23.9		ng/g		101	57 - 137
9Cl-PF3ONS	23.3	22.8		ng/g		98	62 - 130
11Cl-PF3OUdS	23.3	23.5		ng/g		101	55 - 135
Perfluorododecanoic acid	25.0	24.4		ng/g		98	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	21.5		ng/g		92	58 - 131
Perfluoroundecanoic acid	25.0	25.0		ng/g		100	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	24.3		ng/g		102	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	21.2		ng/g		88	55 - 133

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	86		10 - 200
M2-8:2 FTS	88		15 - 200
M2-6:2 FTS	81		10 - 200
13C5 PFHxA	85		10 - 174
13C4 PFHpA	82		10 - 178
13C8 PFOA	86		26 - 159
13C9 PFNA	89		26 - 165
13C6 PFDA	94		26 - 161
13C7 PFUnA	91		12 - 173
13C2-PFDoDA	93		11 - 166
13C2 PFTeDA	107		10 - 169
13C3 PFBS	91		27 - 179
13C3 PFHxS	86		24 - 171
13C8 PFOS	96		41 - 154
d3-NMeFOSAA	83		10 - 178
d5-NEtFOSAA	86		10 - 193
13C8 FOSA	72		14 - 163
13C4 PFBA	85		28 - 153
13C5 PFPeA	87		24 - 161
d7-N-MeFOSE-M	76		10 - 179
d3-NMePFOSA	56		10 - 175
d9-N-EtFOSE-M	79		10 - 185
d5-NEtPFOSA	60		10 - 180
13C3 HFPO-DA	78		10 - 169

Lab Sample ID: MB 410-324753/1-B
Matrix: Solid
Analysis Batch: 326411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
10:2 FTS	<0.60		2.0	0.60	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-324753/1-B
Matrix: Solid
Analysis Batch: 326411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
NMeFOSE	<0.50		2.0	0.50	ng/g		12/07/22 16:26	12/13/22 10:35	1
NMeFOSA	<0.50		2.0	0.50	ng/g		12/07/22 16:26	12/13/22 10:35	1
NEtFOSE	<0.50		2.0	0.50	ng/g		12/07/22 16:26	12/13/22 10:35	1
NEtFOSA	<0.50		2.0	0.50	ng/g		12/07/22 16:26	12/13/22 10:35	1
HFPODA	<1.0		2.0	1.0	ng/g		12/07/22 16:26	12/13/22 10:35	1
DONA	<0.20		3.0	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		12/07/22 16:26	12/13/22 10:35	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		12/07/22 16:26	12/13/22 10:35	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		12/07/22 16:26	12/13/22 10:35	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		12/07/22 16:26	12/13/22 10:35	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*72*		*10 - 200*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
M2-8:2 FTS	*89*		*15 - 200*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
M2-6:2 FTS	*78*		*10 - 200*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C5 PFHxA	*79*		*10 - 174*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C4 PFHpA	*85*		*10 - 178*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C8 PFOA	*85*		*26 - 159*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C9 PFNA	*100*		*26 - 165*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C6 PFDA	*87*		*26 - 161*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C7 PFUnA	*95*		*12 - 173*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C2-PFDoDA	*94*		*11 - 166*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C2 PFTeDA	*104*		*10 - 169*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C3 PFBS	*113*		*27 - 179*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C3 PFHxS	*92*		*24 - 171*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C8 PFOS	*103*		*41 - 154*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
d3-NMeFOSAA	*85*		*10 - 178*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
d5-NEtFOSAA	*93*		*10 - 193*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C8 FOSA	*90*		*14 - 163*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C4 PFBA	*91*		*28 - 153*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C5 PFPeA	*98*		*24 - 161*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
d7-N-MeFOSE-M	*93*		*10 - 179*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
d3-NMePFOSA	*92*		*10 - 175*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
d9-N-EtFOSE-M	*111*		*10 - 185*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
d5-NEtPFOSA	*101*		*10 - 180*	*12/07/22 16:26*	*12/13/22 10:35*	*1*
13C3 HFPO-DA	*72*		*10 - 169*	*12/07/22 16:26*	*12/13/22 10:35*	*1*

Lab Sample ID: LCS 410-324753/2-B
Matrix: Solid
Analysis Batch: 325226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	22.7		ng/g		91	59 - 132
Perfluoroheptanoic acid	25.0	24.2		ng/g		97	59 - 137

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-324753/2-B
Matrix: Solid
Analysis Batch: 325226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	25.0	24.1		ng/g		96	59 - 131
Perfluorononanoic acid	25.0	22.3		ng/g		89	61 - 134
Perfluorodecanoic acid	25.0	23.7		ng/g		95	56 - 133
Perfluorotridecanoic acid	25.0	24.3		ng/g		97	53 - 143
Perfluorotetradecanoic acid	25.0	25.7		ng/g		103	62 - 134
Perfluorobutanesulfonic acid	22.1	22.1		ng/g		100	54 - 130
Perfluorohexanesulfonic acid	22.8	20.0		ng/g		88	59 - 129
Perfluorooctanesulfonic acid	23.1	20.0		ng/g		87	61 - 126
NEtFOSAA	25.0	21.7		ng/g		87	57 - 127
NMeFOSAA	25.0	24.6		ng/g		99	60 - 134
10:2 FTS	24.1	22.6		ng/g		94	46 - 143
Perfluoropentanesulfonic acid	23.5	23.0		ng/g		98	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.7		ng/g		91	59 - 132
Perfluorononanesulfonic acid	24.0	20.8		ng/g		87	60 - 132
Perfluorodecanesulfonic acid	24.1	21.1		ng/g		88	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	21.9		ng/g		90	38 - 145
Perfluorooctanesulfonamide	25.0	23.9		ng/g		95	47 - 149
Perfluorohexadecanoic acid	25.0	21.2		ng/g		85	38 - 147
Perfluorooctadecanoic acid	25.0	20.3		ng/g		81	16 - 160
Perfluorobutanoic acid	25.0	20.1		ng/g		80	60 - 128
Perfluoropentanoic acid	25.0	22.7		ng/g		91	58 - 134
NMeFOSE	25.0	22.3		ng/g		89	60 - 130
NMeFOSA	25.0	22.4		ng/g		89	60 - 129
NEtFOSE	25.0	22.7		ng/g		91	60 - 126
NEtFOSA	25.0	23.5		ng/g		94	60 - 123
HFPODA	25.0	22.3		ng/g		89	49 - 135
DONA	23.6	21.9		ng/g		93	57 - 137
9Cl-PF3ONS	23.3	21.1		ng/g		91	62 - 130
11Cl-PF3OUdS	23.3	21.7		ng/g		93	55 - 135
Perfluorododecanoic acid	25.0	25.0		ng/g		100	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	21.3		ng/g		91	58 - 131
Perfluoroundecanoic acid	25.0	23.9		ng/g		95	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	23.2		ng/g		98	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	22.8		ng/g		95	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*87*		*10 - 200*
M2-8:2 FTS	*98*		*15 - 200*
M2-6:2 FTS	*99*		*10 - 200*
13C5 PFHxA	*84*		*10 - 174*
13C4 PFHpA	*81*		*10 - 178*
13C8 PFOA	*82*		*26 - 159*
13C9 PFNA	*98*		*26 - 165*
13C6 PFDA	*90*		*26 - 161*
13C7 PFUnA	*94*		*12 - 173*
13C2-PFDoDA	*94*		*11 - 166*
13C2 PFTeDA	*98*		*10 - 169*
13C3 PFBS	*92*		*27 - 179*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-324753/2-B
Matrix: Solid
Analysis Batch: 325226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324753

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 PFHxS	96		24 - 171
13C8 PFOS	105		41 - 154
d3-NMeFOSAA	84		10 - 178
d5-NEtFOSAA	96		10 - 193
13C8 FOSA	83		14 - 163
13C4 PFBA	79		28 - 153
13C5 PFPeA	81		24 - 161
d7-N-MeFOSE-M	90		10 - 179
d3-NMePFOSA	84		10 - 175
d9-N-EtFOSE-M	88		10 - 185
d5-NEtPFOSA	80		10 - 180
13C3 HFPO-DA	79		10 - 169

Lab Sample ID: MB 410-331403/1-B
Matrix: Solid
Analysis Batch: 331684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
10:2 FTS	<0.60		2.0	0.60	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
NMeFOSE	<0.50		2.0	0.50	ng/g		12/29/22 21:37	12/31/22 11:09	1
NMeFOSA	<0.50		2.0	0.50	ng/g		12/29/22 21:37	12/31/22 11:09	1
NEtFOSE	<0.50		2.0	0.50	ng/g		12/29/22 21:37	12/31/22 11:09	1
NEtFOSA	<0.50		2.0	0.50	ng/g		12/29/22 21:37	12/31/22 11:09	1
HFPODA	<1.0		2.0	1.0	ng/g		12/29/22 21:37	12/31/22 11:09	1
DONA	<0.20		3.0	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-331403/1-B
Matrix: Solid
Analysis Batch: 331684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		12/29/22 21:37	12/31/22 11:09	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		12/29/22 21:37	12/31/22 11:09	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		12/29/22 21:37	12/31/22 11:09	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		12/29/22 21:37	12/31/22 11:09	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*89*		*10 - 200*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
M2-6:2 FTS	*85*		*10 - 200*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C5 PFHxA	*97*		*10 - 174*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C4 PFHpA	*92*		*10 - 178*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C8 PFOA	*89*		*26 - 159*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C9 PFNA	*101*		*26 - 165*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C6 PFDA	*97*		*26 - 161*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C7 PFUnA	*95*		*12 - 173*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C2-PFDoDA	*97*		*11 - 166*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C2 PFTeDA	*97*		*10 - 169*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C3 PFBS	*89*		*27 - 179*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C3 PFHxS	*91*		*24 - 171*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C8 PFOS	*104*		*41 - 154*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
d3-NMeFOSAA	*83*		*10 - 178*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
d5-NEtFOSAA	*82*		*10 - 193*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C8 FOSA	*84*		*14 - 163*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C4 PFBA	*93*		*28 - 153*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C5 PFPeA	*89*		*24 - 161*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
d3-NMePFOSA	*75*		*10 - 175*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
d9-N-EtFOSE-M	*86*		*10 - 185*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
d5-NEtPFOSA	*71*		*10 - 180*	*12/29/22 21:37*	*12/31/22 11:09*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*12/29/22 21:37*	*12/31/22 11:09*	*1*

Lab Sample ID: LCS 410-331403/2-B
Matrix: Solid
Analysis Batch: 331684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	21.3		ng/g		85	59 - 132
Perfluoroheptanoic acid	25.0	22.9		ng/g		91	59 - 137
Perfluorooctanoic acid	25.0	22.3		ng/g		89	59 - 131
Perfluorononanoic acid	25.0	23.8		ng/g		95	61 - 134
Perfluorodecanoic acid	25.0	22.2		ng/g		89	56 - 133
Perfluorotridecanoic acid	25.0	21.9		ng/g		88	53 - 143
Perfluorotetradecanoic acid	25.0	22.8		ng/g		91	62 - 134
Perfluorobutanesulfonic acid	22.1	20.1		ng/g		91	54 - 130
Perfluorohexanesulfonic acid	22.8	20.2		ng/g		88	59 - 129
Perfluorooctanesulfonic acid	23.1	20.1		ng/g		87	61 - 126
NEtFOSAA	25.0	22.0		ng/g		88	57 - 127

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-331403/2-B
Matrix: Solid
Analysis Batch: 331684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.0	21.6		ng/g		87	60 - 134
10:2 FTS	24.1	20.9		ng/g		87	46 - 143
Perfluoropentanesulfonic acid	23.5	20.5		ng/g		88	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.2		ng/g		89	59 - 132
Perfluorononanesulfonic acid	24.0	19.7		ng/g		82	60 - 132
Perfluorodecanesulfonic acid	24.1	20.5		ng/g		85	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.5		ng/g		81	38 - 145
Perfluorooctanesulfonamide	25.0	23.1		ng/g		92	47 - 149
Perfluorohexadecanoic acid	25.0	20.5		ng/g		82	38 - 147
Perfluorooctadecanoic acid	25.0	20.3		ng/g		81	16 - 160
Perfluorobutanoic acid	25.0	20.0		ng/g		80	60 - 128
Perfluoropentanoic acid	25.0	21.1		ng/g		84	58 - 134
NMeFOSE	25.0	23.8		ng/g		95	60 - 130
NMeFOSA	25.0	21.7		ng/g		87	60 - 129
NEtFOSE	25.0	22.2		ng/g		89	60 - 126
NEtFOSA	25.0	23.2		ng/g		93	60 - 123
HFPODA	25.0	22.1		ng/g		88	49 - 135
DONA	23.6	21.4		ng/g		91	57 - 137
9Cl-PF3ONS	23.3	20.1		ng/g		86	62 - 130
11Cl-PF3OUdS	23.3	19.1		ng/g		82	55 - 135
Perfluorododecanoic acid	25.0	22.0		ng/g		88	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	22.2		ng/g		95	58 - 131
Perfluoroundecanoic acid	25.0	22.2		ng/g		89	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.1		ng/g		93	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	21.8		ng/g		91	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*90*		*10 - 200*
M2-8:2 FTS	*94*		*15 - 200*
M2-6:2 FTS	*96*		*10 - 200*
13C5 PFHxA	*102*		*10 - 174*
13C4 PFHpA	*99*		*10 - 178*
13C8 PFOA	*101*		*26 - 159*
13C9 PFNA	*109*		*26 - 165*
13C6 PFDA	*103*		*26 - 161*
13C7 PFUnA	*98*		*12 - 173*
13C2-PFDoDA	*98*		*11 - 166*
13C2 PFTeDA	*99*		*10 - 169*
13C3 PFBS	*99*		*27 - 179*
13C3 PFHxS	*98*		*24 - 171*
13C8 PFOS	*113*		*41 - 154*
d3-NMeFOSAA	*89*		*10 - 178*
d5-NEtFOSAA	*87*		*10 - 193*
13C8 FOSA	*91*		*14 - 163*
13C4 PFBA	*105*		*28 - 153*
13C5 PFPeA	*103*		*24 - 161*
d7-N-MeFOSE-M	*95*		*10 - 179*
d3-NMePFOSA	*84*		*10 - 175*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-331403/2-B
Matrix: Solid
Analysis Batch: 331684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331403

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	94		10 - 185
d5-NEtPFOSA	82		10 - 180
13C3 HFPO-DA	105		10 - 169

Lab Sample ID: 410-105576-36 MS
Matrix: Solid
Analysis Batch: 331684

Client Sample ID: NOR-19-S-03-04
Prep Type: Total/NA
Prep Batch: 331403

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	<0.20	H cn	25.6	23.0		ng/g	☼	90	59 - 132
Perfluoroheptanoic acid	<0.20	H cn	25.6	23.5		ng/g	☼	92	59 - 137
Perfluorooctanoic acid	<0.20	H cn	25.6	23.5		ng/g	☼	92	59 - 131
Perfluorononanoic acid	<0.20	H cn	25.6	24.6		ng/g	☼	96	61 - 134
Perfluorodecanoic acid	<0.20	H cn	25.6	26.4		ng/g	☼	103	56 - 133
Perfluorotridecanoic acid	<0.20	H cn	25.6	21.9		ng/g	☼	86	53 - 143
Perfluorotetradecanoic acid	<0.20	H cn	25.6	23.4		ng/g	☼	91	62 - 134
Perfluorobutanesulfonic acid	<0.39	H cn	22.7	21.5		ng/g	☼	95	54 - 130
Perfluorohexanesulfonic acid	<0.20	H cn	23.4	21.6		ng/g	☼	92	59 - 129
Perfluorooctanesulfonic acid	<0.20	H cn	23.7	21.1		ng/g	☼	89	61 - 126
NEtFOSAA	<0.20	H cn	25.6	22.7		ng/g	☼	89	57 - 127
NMeFOSAA	<0.20	H F1 cn	25.6	17.3		ng/g	☼	67	60 - 134
10:2 FTS	<0.59	H cn	24.7	21.4		ng/g	☼	87	46 - 143
Perfluoropentanesulfonic acid	<0.20	H cn	24.0	22.4		ng/g	☼	93	57 - 133
Perfluoroheptanesulfonic acid	<0.20	H cn	24.4	21.5		ng/g	☼	88	59 - 132
Perfluorononanesulfonic acid	<0.20	H cn	24.6	21.2		ng/g	☼	86	60 - 132
Perfluorodecanesulfonic acid	<0.20	H cn	24.7	21.7		ng/g	☼	88	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	24.8	22.3		ng/g	☼	90	38 - 145
Perfluorooctanesulfonamide	<0.20	H cn	25.6	24.2		ng/g	☼	94	47 - 149
Perfluorohexadecanoic acid	<0.20	H cn	25.6	19.4		ng/g	☼	76	38 - 147
Perfluorooctadecanoic acid	<0.20	H cn	25.6	8.99		ng/g	☼	35	16 - 160
Perfluorobutanoic acid	<0.79	H cn	25.6	21.0		ng/g	☼	82	60 - 128
Perfluoropentanoic acid	<0.20	H cn	25.6	22.3		ng/g	☼	87	58 - 134
NMeFOSE	<0.49	H cn	25.6	23.6		ng/g	☼	92	60 - 130
NMeFOSA	<0.49	H cn	25.6	23.8		ng/g	☼	93	60 - 129
NEtFOSE	<0.49	H cn	25.6	23.2		ng/g	☼	90	60 - 126
NEtFOSA	<0.49	H cn	25.6	23.2		ng/g	☼	91	60 - 123
HFPODA	<0.99	H cn	25.6	22.7		ng/g	☼	89	49 - 135
DONA	<0.20	H cn	24.2	17.8		ng/g	☼	73	57 - 137
9Cl-PF3ONS	<0.20	H cn	23.8	21.3		ng/g	☼	89	62 - 130
11Cl-PF3OUdS	<0.20	H cn	23.8	21.8		ng/g	☼	92	55 - 135
Perfluorododecanoic acid	<0.20	H cn	25.6	24.0		ng/g	☼	94	60 - 135
4:2 Fluorotelomer sulfonic acid	<0.59	H cn	23.9	24.0		ng/g	☼	100	58 - 131
Perfluoroundecanoic acid	<0.20	H cn	25.6	23.5		ng/g	☼	92	60 - 134
6:2 Fluorotelomer sulfonic acid	<0.59	H cn	24.3	23.9		ng/g	☼	99	59 - 135
8:2 Fluorotelomer sulfonic acid	<0.59	H cn	24.5	22.8		ng/g	☼	93	55 - 133

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-4:2 FTS	45		10 - 200

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-105576-36 MS
Matrix: Solid
Analysis Batch: 331684

Client Sample ID: NOR-19-S-03-04
Prep Type: Total/NA
Prep Batch: 331403

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-8:2 FTS	50		15 - 200
M2-6:2 FTS	45		10 - 200
13C5 PFHxA	40		10 - 174
13C4 PFHpA	42		10 - 178
13C8 PFOA	41		26 - 159
13C9 PFNA	46		26 - 165
13C6 PFDA	42		26 - 161
13C7 PFUnA	42		12 - 173
13C2-PFDoDA	44		11 - 166
13C2 PFTeDA	40		10 - 169
13C3 PFBS	80		27 - 179
13C3 PFHxS	86		24 - 171
13C8 PFOS	92		41 - 154
d3-NMeFOSAA	1	*5-	10 - 178
d5-NEtFOSAA	2	*5-	10 - 193
13C8 FOSA	93		14 - 163
13C4 PFBA	37		28 - 153
13C5 PFPeA	38		24 - 161
d7-N-MeFOSE-M	95		10 - 179
d3-NMePFOSA	82		10 - 175
d9-N-EtFOSE-M	91		10 - 185
d5-NEtPFOSA	83		10 - 180
13C3 HFPO-DA	55		10 - 169

Lab Sample ID: 410-105576-36 MSD
Matrix: Solid
Analysis Batch: 331684

Client Sample ID: NOR-19-S-03-04
Prep Type: Total/NA
Prep Batch: 331403

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	<0.20	H cn	24.4	22.3		ng/g	☼	92	59 - 132	3	30
Perfluoroheptanoic acid	<0.20	H cn	24.4	21.4		ng/g	☼	88	59 - 137	10	30
Perfluorooctanoic acid	<0.20	H cn	24.4	22.7		ng/g	☼	93	59 - 131	3	30
Perfluorononanoic acid	<0.20	H cn	24.4	21.5		ng/g	☼	88	61 - 134	13	30
Perfluorodecanoic acid	<0.20	H cn	24.4	24.8		ng/g	☼	101	56 - 133	6	30
Perfluorotridecanoic acid	<0.20	H cn	24.4	21.9		ng/g	☼	90	53 - 143	0	30
Perfluorotetradecanoic acid	<0.20	H cn	24.4	21.4		ng/g	☼	88	62 - 134	9	30
Perfluorobutanesulfonic acid	<0.39	H cn	21.6	20.6		ng/g	☼	95	54 - 130	5	30
Perfluorohexanesulfonic acid	<0.20	H cn	22.3	20.2		ng/g	☼	91	59 - 129	6	30
Perfluorooctanesulfonic acid	<0.20	H cn	22.6	19.8		ng/g	☼	88	61 - 126	6	30
NEtFOSAA	<0.20	H cn	24.4	20.7		ng/g	☼	85	57 - 127	9	30
NMeFOSAA	<0.20	H F1 cn	24.4	13.8	F1	ng/g	☼	57	60 - 134	22	30
10:2 FTS	<0.59	H cn	23.5	22.0		ng/g	☼	94	46 - 143	3	30
Perfluoropentanesulfonic acid	<0.20	H cn	22.9	20.5		ng/g	☼	90	57 - 133	9	30
Perfluoroheptanesulfonic acid	<0.20	H cn	23.2	21.0		ng/g	☼	91	59 - 132	2	30
Perfluorononanesulfonic acid	<0.20	H cn	23.4	20.5		ng/g	☼	88	60 - 132	4	30
Perfluorodecanesulfonic acid	<0.20	H cn	23.5	19.8		ng/g	☼	84	57 - 132	10	30
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	23.6	20.2		ng/g	☼	85	38 - 145	10	30
Perfluorooctanesulfonamide	<0.20	H cn	24.4	24.1		ng/g	☼	99	47 - 149	0	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-105576-36 MSD
Matrix: Solid
Analysis Batch: 331684

Client Sample ID: NOR-19-S-03-04
Prep Type: Total/NA
Prep Batch: 331403

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexadecanoic acid	<0.20	H cn	24.4	16.8		ng/g	☼	69	38 - 147	14	30
Perfluorooctadecanoic acid	<0.20	H cn	24.4	9.15		ng/g	☼	38	16 - 160	2	30
Perfluorobutanoic acid	<0.79	H cn	24.4	19.6		ng/g	☼	80	60 - 128	7	30
Perfluoropentanoic acid	<0.20	H cn	24.4	22.4		ng/g	☼	92	58 - 134	0	30
NMeFOSE	<0.49	H cn	24.4	23.1		ng/g	☼	95	60 - 130	2	30
NMeFOSA	<0.49	H cn	24.4	23.3		ng/g	☼	96	60 - 129	2	30
NEtFOSE	<0.49	H cn	24.4	21.5		ng/g	☼	88	60 - 126	7	30
NEtFOSA	<0.49	H cn	24.4	23.0		ng/g	☼	94	60 - 123	1	30
HFPODA	<0.99	H cn	24.4	21.9		ng/g	☼	90	49 - 135	4	30
DONA	<0.20	H cn	23.1	17.0		ng/g	☼	74	57 - 137	5	30
9Cl-PF3ONS	<0.20	H cn	22.7	21.3		ng/g	☼	94	62 - 130	0	30
11Cl-PF3OUdS	<0.20	H cn	22.7	19.5		ng/g	☼	86	55 - 135	11	30
Perfluorododecanoic acid	<0.20	H cn	24.4	21.2		ng/g	☼	87	60 - 135	12	30
4:2 Fluorotelomer sulfonic acid	<0.59	H cn	22.8	21.2		ng/g	☼	93	58 - 131	13	30
Perfluoroundecanoic acid	<0.20	H cn	24.4	21.6		ng/g	☼	89	60 - 134	8	30
6:2 Fluorotelomer sulfonic acid	<0.59	H cn	23.1	21.5		ng/g	☼	93	59 - 135	11	30
8:2 Fluorotelomer sulfonic acid	<0.59	H cn	23.4	21.3		ng/g	☼	91	55 - 133	7	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*36*		*10 - 200*
M2-8:2 FTS	*39*		*15 - 200*
M2-6:2 FTS	*35*		*10 - 200*
13C5 PFHxA	*32*		*10 - 174*
13C4 PFHpA	*32*		*10 - 178*
13C8 PFOA	*33*		*26 - 159*
13C9 PFNA	*41*		*26 - 165*
13C6 PFDA	*35*		*26 - 161*
13C7 PFUnA	*37*		*12 - 173*
13C2-PFDoDA	*36*		*11 - 166*
13C2 PFTeDA	*37*		*10 - 169*
13C3 PFBS	*71*		*27 - 179*
13C3 PFHxS	*76*		*24 - 171*
13C8 PFOS	*92*		*41 - 154*
d3-NMeFOSAA	*2*	*5-	*10 - 178*
d5-NEtFOSAA	*1*	*5-	*10 - 193*
13C8 FOSA	*98*		*14 - 163*
13C4 PFBA	*30*		*28 - 153*
13C5 PFPeA	*29*		*24 - 161*
d7-N-MeFOSE-M	*97*		*10 - 179*
d3-NMePFOSA	*79*		*10 - 175*
d9-N-EtFOSE-M	*100*		*10 - 185*
d5-NEtPFOSA	*79*		*10 - 180*
13C3 HFPO-DA	*46*		*10 - 169*

LCMS

Prep Batch: 318369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-1	RW15-37-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-4	RW15-38-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-7	RW15-39-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-8	RW15-39-S-00-01 DUP	Total/NA	Solid	537 (mod)	
410-105576-26 - RE	NOR-14-S-04-06	Total/NA	Solid	537 (mod)	
MB 410-318369/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-318369/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 318397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-1	RW15-37-S-00-01	Total/NA	Solid	Extract Aliquot	318369
410-105576-4	RW15-38-S-00-01	Total/NA	Solid	Extract Aliquot	318369
410-105576-7	RW15-39-S-00-01	Total/NA	Solid	Extract Aliquot	318369
410-105576-8	RW15-39-S-00-01 DUP	Total/NA	Solid	Extract Aliquot	318369
410-105576-26 - RE	NOR-14-S-04-06	Total/NA	Solid	Extract Aliquot	318369
MB 410-318369/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	318369
LCS 410-318369/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	318369

Prep Batch: 318999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-11	RW15-40-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-14	RW15-33-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-17	RW15-34-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-20	RW15-35-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-23	RW15-36-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-318999/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-318999/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 319034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-11	RW15-40-S-00-01	Total/NA	Solid	Extract Aliquot	318999
410-105576-14	RW15-33-S-00-01	Total/NA	Solid	Extract Aliquot	318999
410-105576-17	RW15-34-S-00-01	Total/NA	Solid	Extract Aliquot	318999
410-105576-20	RW15-35-S-00-01	Total/NA	Solid	Extract Aliquot	318999
410-105576-23	RW15-36-S-00-01	Total/NA	Solid	Extract Aliquot	318999
MB 410-318999/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	318999
LCS 410-318999/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	318999

Analysis Batch: 319100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-1	RW15-37-S-00-01	Total/NA	Solid	537 IDA	318397
410-105576-4	RW15-38-S-00-01	Total/NA	Solid	537 IDA	318397
410-105576-7	RW15-39-S-00-01	Total/NA	Solid	537 IDA	318397
410-105576-8	RW15-39-S-00-01 DUP	Total/NA	Solid	537 IDA	318397
410-105576-26 - RE	NOR-14-S-04-06	Total/NA	Solid	537 IDA	318397
MB 410-318369/1-B	Method Blank	Total/NA	Solid	537 IDA	318397
LCS 410-318369/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	318397

Analysis Batch: 320970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-11	RW15-40-S-00-01	Total/NA	Solid	537 IDA	319034

LCMS (Continued)

Analysis Batch: 320970 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-14	RW15-33-S-00-01	Total/NA	Solid	537 IDA	319034
410-105576-17	RW15-34-S-00-01	Total/NA	Solid	537 IDA	319034
410-105576-20	RW15-35-S-00-01	Total/NA	Solid	537 IDA	319034
410-105576-23	RW15-36-S-00-01	Total/NA	Solid	537 IDA	319034
MB 410-318999/1-B	Method Blank	Total/NA	Solid	537 IDA	319034
LCS 410-318999/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	319034

Prep Batch: 324753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-26	NOR-14-S-04-06	Total/NA	Solid	537 (mod)	
410-105576-30	NOR-18-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-33	NOR-19-S-00-01	Total/NA	Solid	537 (mod)	
MB 410-324753/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-324753/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 324824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-26	NOR-14-S-04-06	Total/NA	Solid	Extract Aliquot	324753
410-105576-30	NOR-18-S-00-01	Total/NA	Solid	Extract Aliquot	324753
410-105576-33	NOR-19-S-00-01	Total/NA	Solid	Extract Aliquot	324753
MB 410-324753/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	324753
LCS 410-324753/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	324753

Analysis Batch: 325226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-26	NOR-14-S-04-06	Total/NA	Solid	537 IDA	324824
410-105576-30	NOR-18-S-00-01	Total/NA	Solid	537 IDA	324824
410-105576-33	NOR-19-S-00-01	Total/NA	Solid	537 IDA	324824
LCS 410-324753/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	324824

Analysis Batch: 326411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-324753/1-B	Method Blank	Total/NA	Solid	537 IDA	324824

Prep Batch: 328078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-1 - RE	RW15-37-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-4 - RE	RW15-38-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-7 - RE	RW15-39-S-00-01	Total/NA	Solid	537 (mod)	
410-105576-8 - RE	RW15-39-S-00-01 DUP	Total/NA	Solid	537 (mod)	
MB 410-328078/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-328078/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 328082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-1 - RE	RW15-37-S-00-01	Total/NA	Solid	Extract Aliquot	328078
410-105576-4 - RE	RW15-38-S-00-01	Total/NA	Solid	Extract Aliquot	328078
410-105576-7 - RE	RW15-39-S-00-01	Total/NA	Solid	Extract Aliquot	328078
410-105576-8 - RE	RW15-39-S-00-01 DUP	Total/NA	Solid	Extract Aliquot	328078
MB 410-328078/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	328078
LCS 410-328078/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	328078

LCMS

Analysis Batch: 328436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-1 - RE	RW15-37-S-00-01	Total/NA	Solid	537 IDA	328082
410-105576-4 - RE	RW15-38-S-00-01	Total/NA	Solid	537 IDA	328082
410-105576-7 - RE	RW15-39-S-00-01	Total/NA	Solid	537 IDA	328082
410-105576-8 - RE	RW15-39-S-00-01 DUP	Total/NA	Solid	537 IDA	328082
MB 410-328078/1-B	Method Blank	Total/NA	Solid	537 IDA	328082
LCS 410-328078/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	328082

Prep Batch: 331403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-27	NOR-14-S-06-08	Total/NA	Solid	537 (mod)	
410-105576-28	NOR-14-S-08-10	Total/NA	Solid	537 (mod)	
410-105576-29	NOR-14-S-15-20	Total/NA	Solid	537 (mod)	
410-105576-31	NOR-18-S-01-02	Total/NA	Solid	537 (mod)	
410-105576-32	NOR-18-S-03-04	Total/NA	Solid	537 (mod)	
410-105576-34	NOR-19-S-01-02	Total/NA	Solid	537 (mod)	
410-105576-35	NOR-19-S-01-02 DUP	Total/NA	Solid	537 (mod)	
410-105576-36	NOR-19-S-03-04	Total/NA	Solid	537 (mod)	
MB 410-331403/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-331403/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
410-105576-36 MS	NOR-19-S-03-04	Total/NA	Solid	537 (mod)	
410-105576-36 MSD	NOR-19-S-03-04	Total/NA	Solid	537 (mod)	

Cleanup Batch: 331412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-27	NOR-14-S-06-08	Total/NA	Solid	Extract Aliquot	331403
410-105576-28	NOR-14-S-08-10	Total/NA	Solid	Extract Aliquot	331403
410-105576-29	NOR-14-S-15-20	Total/NA	Solid	Extract Aliquot	331403
410-105576-31	NOR-18-S-01-02	Total/NA	Solid	Extract Aliquot	331403
410-105576-32	NOR-18-S-03-04	Total/NA	Solid	Extract Aliquot	331403
410-105576-34	NOR-19-S-01-02	Total/NA	Solid	Extract Aliquot	331403
410-105576-35	NOR-19-S-01-02 DUP	Total/NA	Solid	Extract Aliquot	331403
410-105576-36	NOR-19-S-03-04	Total/NA	Solid	Extract Aliquot	331403
MB 410-331403/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	331403
LCS 410-331403/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	331403
410-105576-36 MS	NOR-19-S-03-04	Total/NA	Solid	Extract Aliquot	331403
410-105576-36 MSD	NOR-19-S-03-04	Total/NA	Solid	Extract Aliquot	331403

Analysis Batch: 331684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-27	NOR-14-S-06-08	Total/NA	Solid	537 IDA	331412
410-105576-28	NOR-14-S-08-10	Total/NA	Solid	537 IDA	331412
410-105576-29	NOR-14-S-15-20	Total/NA	Solid	537 IDA	331412
410-105576-31	NOR-18-S-01-02	Total/NA	Solid	537 IDA	331412
410-105576-32	NOR-18-S-03-04	Total/NA	Solid	537 IDA	331412
410-105576-34	NOR-19-S-01-02	Total/NA	Solid	537 IDA	331412
410-105576-35	NOR-19-S-01-02 DUP	Total/NA	Solid	537 IDA	331412
410-105576-36	NOR-19-S-03-04	Total/NA	Solid	537 IDA	331412
MB 410-331403/1-B	Method Blank	Total/NA	Solid	537 IDA	331412
LCS 410-331403/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	331412
410-105576-36 MS	NOR-19-S-03-04	Total/NA	Solid	537 IDA	331412
410-105576-36 MSD	NOR-19-S-03-04	Total/NA	Solid	537 IDA	331412

QC Association Summary

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

Job ID: 410-105576-1

LCMS

Prep Batch: 334294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-31 - RE	NOR-18-S-01-02	Total/NA	Solid	537 (mod)	
410-105576-32 - RE	NOR-18-S-03-04	Total/NA	Solid	537 (mod)	
410-105576-34 - RE	NOR-19-S-01-02	Total/NA	Solid	537 (mod)	
410-105576-35 - RE	NOR-19-S-01-02 DUP	Total/NA	Solid	537 (mod)	
MB 410-334294/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-334294/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-334294/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 334317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-31 - RE	NOR-18-S-01-02	Total/NA	Solid	Extract Aliquot	334294
410-105576-32 - RE	NOR-18-S-03-04	Total/NA	Solid	Extract Aliquot	334294
410-105576-34 - RE	NOR-19-S-01-02	Total/NA	Solid	Extract Aliquot	334294
410-105576-35 - RE	NOR-19-S-01-02 DUP	Total/NA	Solid	Extract Aliquot	334294
MB 410-334294/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	334294
LCS 410-334294/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	334294
LCSD 410-334294/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	334294

Analysis Batch: 334393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-31 - RE	NOR-18-S-01-02	Total/NA	Solid	537 IDA	334317
410-105576-32 - RE	NOR-18-S-03-04	Total/NA	Solid	537 IDA	334317
410-105576-34 - RE	NOR-19-S-01-02	Total/NA	Solid	537 IDA	334317
410-105576-35 - RE	NOR-19-S-01-02 DUP	Total/NA	Solid	537 IDA	334317
MB 410-334294/1-B	Method Blank	Total/NA	Solid	537 IDA	334317
LCS 410-334294/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	334317
LCSD 410-334294/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	334317

General Chemistry

Analysis Batch: 316958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-26	NOR-14-S-04-06	Total/NA	Solid	Moisture	
410-105576-30	NOR-18-S-00-01	Total/NA	Solid	Moisture	
410-105576-33	NOR-19-S-00-01	Total/NA	Solid	Moisture	

Analysis Batch: 317047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-1	RW15-37-S-00-01	Total/NA	Solid	Moisture	
410-105576-4	RW15-38-S-00-01	Total/NA	Solid	Moisture	
410-105576-7	RW15-39-S-00-01	Total/NA	Solid	Moisture	
410-105576-8	RW15-39-S-00-01 DUP	Total/NA	Solid	Moisture	
410-105576-11	RW15-40-S-00-01	Total/NA	Solid	Moisture	
410-105576-14	RW15-33-S-00-01	Total/NA	Solid	Moisture	
410-105576-17	RW15-34-S-00-01	Total/NA	Solid	Moisture	
410-105576-20	RW15-35-S-00-01	Total/NA	Solid	Moisture	
410-105576-23	RW15-36-S-00-01	Total/NA	Solid	Moisture	

Analysis Batch: 317059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-27	NOR-14-S-06-08	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 317059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105576-28	NOR-14-S-08-10	Total/NA	Solid	Moisture	
410-105576-29	NOR-14-S-15-20	Total/NA	Solid	Moisture	
410-105576-31	NOR-18-S-01-02	Total/NA	Solid	Moisture	
410-105576-32	NOR-18-S-03-04	Total/NA	Solid	Moisture	
410-105576-34	NOR-19-S-01-02	Total/NA	Solid	Moisture	
410-105576-35	NOR-19-S-01-02 DUP	Total/NA	Solid	Moisture	
410-105576-36	NOR-19-S-03-04	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 410-105576-1

Client Sample ID: RW15-37-S-00-01
Lab Sample ID: 410-105576-1
Date Collected: 11/09/22 11:25
Matrix: Solid
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317047	USWF	ELLE	11/13/22 17:06

Client Sample ID: RW15-37-S-00-01
Lab Sample ID: 410-105576-1
Date Collected: 11/09/22 11:25
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318369	DTA4	ELLE	11/16/22 18:13
Total/NA	Cleanup	Extract Aliquot			318397	DTA4	ELLE	11/16/22 19:44
Total/NA	Analysis	537 IDA		1	319100	PY4D	ELLE	11/19/22 05:30
Total/NA	Prep	537 (mod)	RE		328078	U5HI	ELLE	12/16/22 21:42
Total/NA	Cleanup	Extract Aliquot	RE		328082	U5HI	ELLE	12/16/22 22:15
Total/NA	Analysis	537 IDA	RE	1	328436	UCD3	ELLE	12/20/22 00:43

Client Sample ID: RW15-38-S-00-01
Lab Sample ID: 410-105576-4
Date Collected: 11/09/22 11:50
Matrix: Solid
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317047	USWF	ELLE	11/13/22 17:06

Client Sample ID: RW15-38-S-00-01
Lab Sample ID: 410-105576-4
Date Collected: 11/09/22 11:50
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318369	DTA4	ELLE	11/16/22 18:13
Total/NA	Cleanup	Extract Aliquot			318397	DTA4	ELLE	11/16/22 19:44
Total/NA	Analysis	537 IDA		1	319100	PY4D	ELLE	11/19/22 05:41
Total/NA	Prep	537 (mod)	RE		328078	U5HI	ELLE	12/16/22 21:42
Total/NA	Cleanup	Extract Aliquot	RE		328082	U5HI	ELLE	12/16/22 22:15
Total/NA	Analysis	537 IDA	RE	1	328436	UCD3	ELLE	12/20/22 00:54

Client Sample ID: RW15-39-S-00-01
Lab Sample ID: 410-105576-7
Date Collected: 11/09/22 12:05
Matrix: Solid
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317047	USWF	ELLE	11/13/22 17:06

Client Sample ID: RW15-39-S-00-01

Lab Sample ID: 410-105576-7
Date Collected: 11/09/22 12:05
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318369	DTA4	ELLE	11/16/22 18:13
Total/NA	Cleanup	Extract Aliquot			318397	DTA4	ELLE	11/16/22 19:44
Total/NA	Analysis	537 IDA		1	319100	PY4D	ELLE	11/19/22 05:53
Total/NA	Prep	537 (mod)	RE		328078	U5HI	ELLE	12/16/22 21:42
Total/NA	Cleanup	Extract Aliquot	RE		328082	U5HI	ELLE	12/16/22 22:15
Total/NA	Analysis	537 IDA	RE	1	328436	UCD3	ELLE	12/20/22 01:16

Client Sample ID: RW15-39-S-00-01 DUP

Lab Sample ID: 410-105576-8
Date Collected: 11/09/22 12:05
Matrix: Solid
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317047	USWF	ELLE	11/13/22 17:06

Client Sample ID: RW15-39-S-00-01 DUP

Lab Sample ID: 410-105576-8
Date Collected: 11/09/22 12:05
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318369	DTA4	ELLE	11/16/22 18:13
Total/NA	Cleanup	Extract Aliquot			318397	DTA4	ELLE	11/16/22 19:44
Total/NA	Analysis	537 IDA		1	319100	PY4D	ELLE	11/19/22 06:04
Total/NA	Prep	537 (mod)	RE		328078	U5HI	ELLE	12/16/22 21:42
Total/NA	Cleanup	Extract Aliquot	RE		328082	U5HI	ELLE	12/16/22 22:15
Total/NA	Analysis	537 IDA	RE	1	328436	UCD3	ELLE	12/20/22 01:27

Client Sample ID: RW15-40-S-00-01

Lab Sample ID: 410-105576-11
Date Collected: 11/09/22 12:20
Matrix: Solid
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317047	USWF	ELLE	11/13/22 17:06

Client Sample ID: RW15-40-S-00-01

Lab Sample ID: 410-105576-11
Date Collected: 11/09/22 12:20
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318999	UJSZ	ELLE	11/18/22 09:11
Total/NA	Cleanup	Extract Aliquot			319034	UJSZ	ELLE	11/18/22 10:00
Total/NA	Analysis	537 IDA		1	320970	JVK6	ELLE	11/27/22 20:07

Client Sample ID: RW15-33-S-00-01
Lab Sample ID: 410-105576-14
Date Collected: 11/10/22 09:14
Matrix: Solid
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317047	USWF	ELLE	11/13/22 17:06

Client Sample ID: RW15-33-S-00-01
Lab Sample ID: 410-105576-14
Date Collected: 11/10/22 09:14
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318999	UJSZ	ELLE	11/18/22 09:11
Total/NA	Cleanup	Extract Aliquot			319034	UJSZ	ELLE	11/18/22 10:00
Total/NA	Analysis	537 IDA		1	320970	JVK6	ELLE	11/27/22 20:18

Client Sample ID: RW15-34-S-00-01
Lab Sample ID: 410-105576-17
Date Collected: 11/10/22 09:45
Matrix: Solid
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317047	USWF	ELLE	11/13/22 17:06

Client Sample ID: RW15-34-S-00-01
Lab Sample ID: 410-105576-17
Date Collected: 11/10/22 09:45
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318999	UJSZ	ELLE	11/18/22 09:11
Total/NA	Cleanup	Extract Aliquot			319034	UJSZ	ELLE	11/18/22 10:00
Total/NA	Analysis	537 IDA		1	320970	JVK6	ELLE	11/27/22 20:29

Client Sample ID: RW15-35-S-00-01
Lab Sample ID: 410-105576-20
Date Collected: 11/10/22 10:10
Matrix: Solid
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317047	USWF	ELLE	11/13/22 17:06

Client Sample ID: RW15-35-S-00-01
Lab Sample ID: 410-105576-20
Date Collected: 11/10/22 10:10
Matrix: Solid
Date Received: 11/12/22 09:34
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318999	UJSZ	ELLE	11/18/22 09:11
Total/NA	Cleanup	Extract Aliquot			319034	UJSZ	ELLE	11/18/22 10:00
Total/NA	Analysis	537 IDA		1	320970	JVK6	ELLE	11/27/22 20:40

Lab Chronicle

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

Job ID: 410-105576-1

Client Sample ID: RW15-36-S-00-01
Date Collected: 11/10/22 10:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317047	USWF	ELLE	11/13/22 17:06

Client Sample ID: RW15-36-S-00-01
Date Collected: 11/10/22 10:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-23
Matrix: Solid
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			318999	UJSZ	ELLE	11/18/22 09:11
Total/NA	Cleanup	Extract Aliquot			319034	UJSZ	ELLE	11/18/22 10:00
Total/NA	Analysis	537 IDA		1	320970	JVK6	ELLE	11/27/22 21:02

Client Sample ID: NOR-14-S-04-06
Date Collected: 11/11/22 08:40
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	316958	OEL4	ELLE	11/12/22 14:50

Client Sample ID: NOR-14-S-04-06
Date Collected: 11/11/22 08:40
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-26
Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)	RE		318369	DTA4	ELLE	11/16/22 18:13
Total/NA	Cleanup	Extract Aliquot	RE		318397	DTA4	ELLE	11/16/22 19:44
Total/NA	Analysis	537 IDA	RE	1	319100	PY4D	ELLE	11/19/22 06:15
Total/NA	Prep	537 (mod)			324753	K9VR	ELLE	12/07/22 16:26
Total/NA	Cleanup	Extract Aliquot			324824	K9VR	ELLE	12/07/22 20:41
Total/NA	Analysis	537 IDA		1	325226	PY4D	ELLE	12/09/22 05:01

Client Sample ID: NOR-14-S-06-08
Date Collected: 11/11/22 08:43
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317059	USWF	ELLE	11/13/22 19:10

Client Sample ID: NOR-14-S-06-08
Date Collected: 11/11/22 08:43
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-27
Matrix: Solid
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			331403	K9VR	ELLE	12/29/22 21:37
Total/NA	Cleanup	Extract Aliquot			331412	K9VR	ELLE	12/29/22 22:18
Total/NA	Analysis	537 IDA		1	331684	QD9Y	ELLE	12/31/22 11:31

Lab Chronicle

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

Job ID: 410-105576-1

Client Sample ID: NOR-14-S-08-10
Date Collected: 11/11/22 08:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317059	USWF	ELLE	11/13/22 19:10

Client Sample ID: NOR-14-S-08-10
Date Collected: 11/11/22 08:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-28
Matrix: Solid
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			331403	K9VR	ELLE	12/29/22 21:37
Total/NA	Cleanup	Extract Aliquot			331412	K9VR	ELLE	12/29/22 22:18
Total/NA	Analysis	537 IDA		1	331684	QD9Y	ELLE	12/31/22 11:43

Client Sample ID: NOR-14-S-15-20
Date Collected: 11/11/22 09:00
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317059	USWF	ELLE	11/13/22 19:10

Client Sample ID: NOR-14-S-15-20
Date Collected: 11/11/22 09:00
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-29
Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			331403	K9VR	ELLE	12/29/22 21:37
Total/NA	Cleanup	Extract Aliquot			331412	K9VR	ELLE	12/29/22 22:18
Total/NA	Analysis	537 IDA		1	331684	QD9Y	ELLE	12/31/22 11:54

Client Sample ID: NOR-18-S-00-01
Date Collected: 11/11/22 10:40
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	316958	OEL4	ELLE	11/12/22 14:50

Client Sample ID: NOR-18-S-00-01
Date Collected: 11/11/22 10:40
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-30
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			324753	K9VR	ELLE	12/07/22 16:26
Total/NA	Cleanup	Extract Aliquot			324824	K9VR	ELLE	12/07/22 20:41
Total/NA	Analysis	537 IDA		1	325226	PY4D	ELLE	12/09/22 05:12

Lab Chronicle

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

Job ID: 410-105576-1

Client Sample ID: NOR-18-S-01-02
Date Collected: 11/11/22 10:43
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317059	USWF	ELLE	11/13/22 19:10

Client Sample ID: NOR-18-S-01-02
Date Collected: 11/11/22 10:43
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-31
Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			331403	K9VR	ELLE	12/29/22 21:37
Total/NA	Cleanup	Extract Aliquot			331412	K9VR	ELLE	12/29/22 22:18
Total/NA	Analysis	537 IDA		1	331684	QD9Y	ELLE	12/31/22 12:05
Total/NA	Prep	537 (mod)	RE		334294	X5YV	ELLE	01/10/23 21:07
Total/NA	Cleanup	Extract Aliquot	RE		334317	X5YV	ELLE	01/10/23 23:40
Total/NA	Analysis	537 IDA	RE	1	334393	JVK6	ELLE	01/11/23 16:20

Client Sample ID: NOR-18-S-03-04
Date Collected: 11/11/22 10:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317059	USWF	ELLE	11/13/22 19:10

Client Sample ID: NOR-18-S-03-04
Date Collected: 11/11/22 10:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-32
Matrix: Solid
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			331403	K9VR	ELLE	12/29/22 21:37
Total/NA	Cleanup	Extract Aliquot			331412	K9VR	ELLE	12/29/22 22:18
Total/NA	Analysis	537 IDA		1	331684	QD9Y	ELLE	12/31/22 12:16
Total/NA	Prep	537 (mod)	RE		334294	X5YV	ELLE	01/10/23 21:07
Total/NA	Cleanup	Extract Aliquot	RE		334317	X5YV	ELLE	01/10/23 23:40
Total/NA	Analysis	537 IDA	RE	1	334393	JVK6	ELLE	01/11/23 16:31

Client Sample ID: NOR-19-S-00-01
Date Collected: 11/11/22 11:10
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	316958	OEL4	ELLE	11/12/22 14:50

Lab Chronicle

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

Job ID: 410-105576-1

Client Sample ID: NOR-19-S-00-01
Date Collected: 11/11/22 11:10
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-33
Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			324753	K9VR	ELLE	12/07/22 16:26
Total/NA	Cleanup	Extract Aliquot			324824	K9VR	ELLE	12/07/22 20:41
Total/NA	Analysis	537 IDA		1	325226	PY4D	ELLE	12/09/22 05:23

Client Sample ID: NOR-19-S-01-02
Date Collected: 11/11/22 11:13
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317059	USWF	ELLE	11/13/22 19:10

Client Sample ID: NOR-19-S-01-02
Date Collected: 11/11/22 11:13
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-34
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			331403	K9VR	ELLE	12/29/22 21:37
Total/NA	Cleanup	Extract Aliquot			331412	K9VR	ELLE	12/29/22 22:18
Total/NA	Analysis	537 IDA		1	331684	QD9Y	ELLE	12/31/22 12:27
Total/NA	Prep	537 (mod)	RE		334294	X5YV	ELLE	01/10/23 21:07
Total/NA	Cleanup	Extract Aliquot	RE		334317	X5YV	ELLE	01/10/23 23:40
Total/NA	Analysis	537 IDA	RE	1	334393	JVK6	ELLE	01/11/23 16:42

Client Sample ID: NOR-19-S-01-02 DUP
Date Collected: 11/11/22 11:13
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317059	USWF	ELLE	11/13/22 19:10

Client Sample ID: NOR-19-S-01-02 DUP
Date Collected: 11/11/22 11:13
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-35
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			331403	K9VR	ELLE	12/29/22 21:37
Total/NA	Cleanup	Extract Aliquot			331412	K9VR	ELLE	12/29/22 22:18
Total/NA	Analysis	537 IDA		1	331684	QD9Y	ELLE	12/31/22 12:38
Total/NA	Prep	537 (mod)	RE		334294	X5YV	ELLE	01/10/23 21:07
Total/NA	Cleanup	Extract Aliquot	RE		334317	X5YV	ELLE	01/10/23 23:40
Total/NA	Analysis	537 IDA	RE	1	334393	JVK6	ELLE	01/11/23 16:53

Lab Chronicle

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

Job ID: 410-105576-1

Client Sample ID: NOR-19-S-03-04
Date Collected: 11/11/22 11:15
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	317059	USWF	ELLE	11/13/22 19:10

Client Sample ID: NOR-19-S-03-04
Date Collected: 11/11/22 11:15
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105576-36
Matrix: Solid
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			331403	K9VR	ELLE	12/29/22 21:37
Total/NA	Cleanup	Extract Aliquot			331412	K9VR	ELLE	12/29/22 22:18
Total/NA	Analysis	537 IDA		1	331684	QD9Y	ELLE	12/31/22 12:49

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-105576-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	01-14-23

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
Moisture		Solid	Percent Moisture

Method Summary

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

Job ID: 410-105576-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
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 Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

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

Job ID: 410-105576-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-105576-1	RW15-37-S-00-01	Solid	11/09/22 11:25	11/12/22 09:34
410-105576-4	RW15-38-S-00-01	Solid	11/09/22 11:50	11/12/22 09:34
410-105576-7	RW15-39-S-00-01	Solid	11/09/22 12:05	11/12/22 09:34
410-105576-8	RW15-39-S-00-01 DUP	Solid	11/09/22 12:05	11/12/22 09:34
410-105576-11	RW15-40-S-00-01	Solid	11/09/22 12:20	11/12/22 09:34
410-105576-14	RW15-33-S-00-01	Solid	11/10/22 09:14	11/12/22 09:34
410-105576-17	RW15-34-S-00-01	Solid	11/10/22 09:45	11/12/22 09:34
410-105576-20	RW15-35-S-00-01	Solid	11/10/22 10:10	11/12/22 09:34
410-105576-23	RW15-36-S-00-01	Solid	11/10/22 10:45	11/12/22 09:34
410-105576-26	NOR-14-S-04-06	Solid	11/11/22 08:40	11/12/22 09:34
410-105576-27	NOR-14-S-06-08	Solid	11/11/22 08:43	11/12/22 09:34
410-105576-28	NOR-14-S-08-10	Solid	11/11/22 08:45	11/12/22 09:34
410-105576-29	NOR-14-S-15-20	Solid	11/11/22 09:00	11/12/22 09:34
410-105576-30	NOR-18-S-00-01	Solid	11/11/22 10:40	11/12/22 09:34
410-105576-31	NOR-18-S-01-02	Solid	11/11/22 10:43	11/12/22 09:34
410-105576-32	NOR-18-S-03-04	Solid	11/11/22 10:45	11/12/22 09:34
410-105576-33	NOR-19-S-00-01	Solid	11/11/22 11:10	11/12/22 09:34
410-105576-34	NOR-19-S-01-02	Solid	11/11/22 11:13	11/12/22 09:34
410-105576-35	NOR-19-S-01-02 DUP	Solid	11/11/22 11:13	11/12/22 09:34
410-105576-36	NOR-19-S-03-04	Solid	11/11/22 11:15	11/12/22 09:34

Chain of Custody Record

eurofins | Environment Testing America

410-105576 Chain of Custody

Client Contact: Mr. Matthew Kenney	Sampler: M. KENNEY / W. TIFFT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68375-7540.2
Company: Weston Solutions, Inc.	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 1 of 4
Address: 43 North Main Street	PWSID:	Analysis Requested		Job #:
City: Concord	Due Date Requested:			Preservation Codes:
State, Zip: NH, 03301	TAT Requested (days): STANDARD (Please See Note)			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; Y - Trizma; Z - other (specify); Other:
Phone: 860 712 2681	Compliance Project: Δ Yes Δ No			
Email: Matthew.Kenney@WestonSolutions.com	PO #: 0102971			
Project Name: Nantucket	WO #:			
Site: NANTUCKET	Project #: 41001960			
	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)	Filtered Sample (Y/N)	PFC_IDA - 36 PFAS	Moisture - Moisture	Total Number of containers	Special Instructions/Note:
RW1S-37-S-00-01	11/9/22	1125	G	Solid		X	X		
RW1S-37-S-01-02		1128		Solid					HOLD
RW1S-37-S-03-04		1130		Solid					HOLD
RW1S-38-S-00-01		1150		Solid					
RW1S-38-S-01-02		1153		Solid					HOLD
RW1S-38-S-03-04		1155		Solid					HOLD
RW1S-39-S-00-01		1205		Solid					
RW1S-39-S-00-01 DUP		1205		Solid					
RW1S-39-S-01-02		1208		Solid					HOLD
RW1S-39-S-03-04		1210		Solid					HOLD
RW1S-40-S-00-01		1220		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

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	11/11/22 1145	WESTON			
Relinquished by:					
Relinquished by:			Received by:	11/12/22 0934	

Custody Seals Intact: ☐ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1

Ver: 06/08/2021

JR

Eurofins Lancaster Laboratories Environme
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: MK/LCT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68375-7540.3
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	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, Y - Trizma, Z - other (specify)
City: Concord	TAT Requested (days):			
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)	PFC_IDA - 36 PFAS	Moisture - Moisture	Special Instructions/Note:
RW15-40-S-01-02	11/9/22	1223	G	Solid	X	X	HOLD
RW15-40-S-03-04	11/9/22	1225		Solid			HOLD
RW15-33-S-00-01	11/10/22	0915		Solid			
RW15-33-S-01-02		0918		Solid			HOLD
RW15-33-S-03-04		0920		Solid			HOLD
RW15-34-S-00-01		0945		Solid			
RW15-34-S-01-02		0948		Solid			HOLD
RW15-34-S-03-04		0950		Solid			HOLD
RW15-35-S-00-01		1010		Solid			
RW15-35-S-01-02		1013		Solid			HOLD
RW15-35-S-03-04		1015		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]	11/11/22 1145	WESTON			
2						
3				[signature]	11/12/22 0934	ARM

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

Cooler Temperature(s) °C and Other Remarks: 2.1

Ver: 06/08/2021

SR

Eurofins Lancaster Laboratories Environme
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: MK/WT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68375-7540.4
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: 3 4 Page 3 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, Y - Trizma, Z - other (specify), Other:
City: Concord	TAT Requested (days):			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 0102971			
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)	PFC_IDA - 36 PFAS	Moisture - Moisture	Total Number of containers	Special Instructions/Note:
RW15-36-S-00-01	11/10/22	1045	G	Solid			X	X		
RW15-36-S-01-02	"	1048	"	Solid			"	"		HOLD
RW15-36-S-03-04	"	1050	"	Solid			"	"		HOLD
NOR-14-S-04-06	11/11/22	0840	"	Solid			"	"		5 DAY TAT
NOR-14-S-06-08	"	0843	"	Solid			"	"		HOLD
NOR-14-S-08-10	"	0845	"	Solid			"	"		HOLD
NOR-14-S-15-20	"	0900	"	Solid			"	"		HOLD
NOR-18-S-00-01	"	1040	"	Solid			"	"		5 DAY TAT
NOR-18-S-01-02	"	1043	"	Solid			"	"		HOLD
NOR-18-S-03-04	"	1045	"	Solid			"	"		HOLD
NOR-19-S-00-01	"		"	Solid			"	"		5 DAY TAT

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]	11/11/22 1145	WESTN			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 11/12/22 0934	Company

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

Cooler Temperature(s) °C and Other Remarks: 2-1

SR

Ver: 06/08/2021

Eurofins Lancaster Laboratories Environme
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: MK/WT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68375-7540.5
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin:	Page: Page 4 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, Y - Trizma, Z - other (specify), Other:
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 #: 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)	PFC_IDA - 36 PFAS	Moisture - Moisture	Total Number of containers	Special Instructions/Note:
NOR-19-S-01-02	11/11/22	1113	G	Solid			X	X		Hold
NOR-19-S-01-02 DUP	1	1113	1	Solid			1	1		Hold
NOR-19-S-03-04	1	1115	1	Solid			1	1		Hold
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

MK

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		11/11/22 1145				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/14/22 0934	Company

Custody Seals Intact: ☒ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1

SR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-105576-1

Login Number: 105576 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: Roth, Stephanie

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Natalie Luciano

From: Kanarek, Michael <Michael.Kanarek@WestonSolutions.com>
Sent: Wednesday, December 28, 2022 6:59 PM
To: Natalie Luciano
Cc: Kenney, Matthew; Elizabeth Zanar; Kammer, Lisa
Subject: Re: [EXT]:Preliminary Eurofins Lancaster Laboratories Environment Testing, LLC report files from 410-105576-1 Nantucket

EXTERNAL EMAIL*

Yes, please analyze that duplicate sample as well.

Thank you,

Michael Kanarek, P.G.
Project Manager
Weston Solutions, Inc.
43 N. Main St., Concord, NH 03301
(603) 656-5450
www.westonsolutions.com

From: Natalie Luciano <Natalie.Luciano@et.eurofinsus.com>
Sent: Wednesday, December 28, 2022 5:09:46 PM
To: Kanarek, Michael <Michael.Kanarek@WestonSolutions.com>
Cc: Kenney, Matthew <Matthew.Kenney@WestonSolutions.com>; Elizabeth Zanar <Elizabeth.Zanar@et.eurofinsus.com>; Kammer, Lisa <Lisa.Kammer@WestonSolutions.com>
Subject: RE: [EXT]:Preliminary Eurofins Lancaster Laboratories Environment Testing, LLC report files from 410-105576-1 Nantucket

***** External Message *** -- PROBE message before clicking links or opening attachments.**

Good afternoon,

We will proceed to analyze the samples listed. I do have a question related to NOR-19-S-01-02. I noticed that we also have NOR-19-S-01-02 DUP. Should the DUP sample be analyzed as well?

For soils 537mod, the hold time is 28 days from collection to extraction, then 28 days from extraction to analysis.
For non-potable waters 537mod, the hold time is 14 days from collection to extraction, then 28 days from extraction to analysis.

I passed your additional comments along to management.

Thank you,
Natalie Luciano
Principal Specialist, Environmental Client Services

Phone: +1 717-556-7258
Email: **Natalie.Luciano@ET.EurofinsUS.com**

COMMUNICATION ALERT: Please update my e-mail address in your e-mail directory:
Natalie.Luciano@ET.EurofinsUS.com

www.EurofinsUS.com/Env

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From: Kanarek, Michael <Michael.Kanarek@WestonSolutions.com>
Sent: Wednesday, December 28, 2022 1:53 PM
To: Natalie Luciano <Natalie.Luciano@et.eurofinsus.com>
Cc: Kenney, Matthew <Matthew.Kenney@WestonSolutions.com>; Elizabeth Zanar <Elizabeth.Zanar@et.eurofinsus.com>; Kammer, Lisa <Lisa.Kammer@WestonSolutions.com>
Subject: RE: [EXT]:Preliminary Eurofins Lancaster Laboratories Environment Testing, LLC report files from 410-105576-1 Nantucket

EXTERNAL EMAIL*

Natalie,

Please analyze these samples even though they are outside of the hold time:

- NOR-14-S-06-08
- NOR-14-S-08-10
- NOR-14-S-15-20
- NOR-18-S-01-02
- NOR-18-S-03-04
- NOR-19-S-01-02
- NOR-19-S-03-04

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-105580-1

WESTON SAMPLE IDs: RW6-72-GW-31, RW6-72-GW-31 DUP, RW6-72-GW-81, RW15-27-GW-81, EB-110722, SL-21-GW-51, PL-02-GW-56, PL-01-GW-56, RW6-69-GW-91, RW15-32-GW-51, RW15-29-GW-91, RW15-30-GW-46, EB-110922, RW15-31-GW-46, RW15-06-GW-91, EB-111022, RW15-28-GW-46, RW15-28-GW-96, FB-111122

Data Reviewed	**Fraction**				**Comments**
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	RW15-30-GW-46 SL-21-GW-51 RW6-69-GW-91 RW15-06-GW-91				RW15-30-GW-46: PFBA, PFHxS, PFHxA, PFOS, PFPeA: 10x dilution. SL-21-GW-51: PFOS: 10x dilution. RW6-69-GW-91: PFHxS, PFOS: 10x dilution. RW15-06-GW-91: RLs raised due to matrix interference.
Preservation/Log Sheet	√				
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	LCSD 410-319444/3-A				RPD > 30%: qualify detects as estimated J in samples RW6-72-GW-31, RW6-72-GW-31-DUP, RW6-72-GW-81, RW15-27-GW-81, EB-110722, SL-21-GW-51, PL-02-GW-56, and RW6-69-GW-91. Non-detects are not qualified.
ICAL/ICV/CCV	√				
Lab Duplicates	NA				
Field Duplicates	√				RW6-72-GW-31 and RW6-72-GW-31-DUP

Isotope Dilution Recoveries	RW15-27-GW-81 RW15-29-GW-91 RW15-28-GW-46				RW15-27-GW-81: M2-4:2-FTS high: qualify 4:2 FTS as estimated non-detect, UJ. RW15-29-GW-91: M2-4:2-FTS high: qualify 4:2 FTS as estimated non-detect, UJ. RW15-28-GW-46: d3-NMePFOSA low: qualify NMeFOSA as estimated non-detect, UJ.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: J, UJ

Data Reviewer Initials: RBE
Date: 1/24/2023

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Generated 12/27/2022 5:10:08 PM

JOB DESCRIPTION

Nantucket

JOB NUMBER

410-105580-1

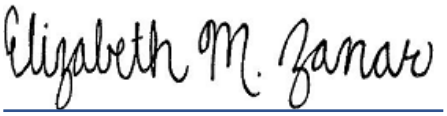
Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/27/2022 5:10:08 PM

Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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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Definitions/Glossary

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

Job ID: 410-105580-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail

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

Job ID: 410-105580-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-105580-1

Receipt
The samples were received on 11/12/2022 9:34 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 2.4°C

PFAS
Method PFC_IDA: The recovery for the labeled isotope(s) M2-4:2 FTS in the following sample: RW15-29-GW-91 (410-105580-11) 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: Sediment was present in sample: RW15-29-GW-91 (410-105580-11) ; therefore, the sample was centrifuged and decanted.

Method PFC_IDA: Reporting limits were raised for the following sample: RW15-06-GW-91 (410-105580-15) due to interference from the sample matrix.

Method PFC_IDA: Sediment was present in sample: RW15-28-GW-96 (410-105580-18) ; therefore, the sample was centrifuged and decanted.

Method PFC_IDA: The recovery for the labeled isotope: M2-4:2 FTS in the following sample: RW15-27-GW-81 (410-105580-4) 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: Sediment was present in sample: RW6-72-GW-81 (410-105580-3), RW15-27-GW-81 (410-105580-4), SL-21-GW-51 (410-105580-6), PL-02-GW-56 (410-105580-7), PL-01-GW-56 (410-105580-8) and RW6-69-GW-91 (410-105580-9); therefore, the samples were centrifuged and decanted.

Method PFC_IDA: The recovery for the labeled isotope(s) d3-NMePFOSA in the following sample: RW15-28-GW-46 (410-105580-17) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was within 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: 410-105580-1

Client Sample ID: RW6-72-GW-31 — Lab Sample ID: 410-105580-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	50	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	40	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	13	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	2.6	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	4.3		1.8		ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	98	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	48	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	6.4		1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanesulfonic acid	2.5	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	20	*1	4.5		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	65	*1	1.8		ng/L	1		537 IDA	Total/NA

Client Sample ID: RW6-72-GW-31 DUP — Lab Sample ID: 410-105580-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	51	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	41	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	13	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	2.5	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	4.4		1.8		ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	95	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	50	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	6.5		1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanesulfonic acid	2.4	*1	1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	20	*1	4.4		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	63	*1	1.8		ng/L	1		537 IDA	Total/NA

Client Sample ID: RW6-72-GW-81 — Lab Sample ID: 410-105580-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	19	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	9.9	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	35	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	14	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorodecanoic acid	30	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	2.6	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
10:2 FTS	7.3	cn	4.5		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	6.6	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorododecanoic acid	3.2	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroundecanoic acid	5.0	cn	1.8		ng/L	1		537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	11	cn	4.5		ng/L	1		537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	23	*1 cn	2.7		ng/L	1		537 IDA	Total/NA

Client Sample ID: RW15-27-GW-81 — Lab Sample ID: 410-105580-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	18	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	11	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	39	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	14	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorodecanoic acid	28	cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	3.6	cn	1.7		ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RW15-27-GW-81 (Continued) — Lab Sample ID: 410-105580-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	50	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	8.7	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
10:2 FTS	6.9	cn	4.4		ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	4.2	cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	5.7	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorododecanoic acid	2.8	cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluoroundecanoic acid	5.2	cn	1.7		ng/L	1		537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	9.7	cn	4.4		ng/L	1		537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	18	*1 cn	2.6		ng/L	1		537 IDA	Total/NA

Client Sample ID: EB-110722 — Lab Sample ID: 410-105580-5

No Detections.

Client Sample ID: SL-21-GW-51 — Lab Sample ID: 410-105580-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	220	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	110	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	48	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	1.8	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	10	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	200	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	12	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanesulfonic acid	3.8	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	78	*1 cn	4.5		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	280	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	13	cn	4.5		ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - DL	350	*1 cn	18		ng/L	10		537 IDA	Total/NA

Client Sample ID: PL-02-GW-56 — Lab Sample ID: 410-105580-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	28	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	13	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	48	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	15	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorodecanoic acid	31	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	3.0	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	40	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	30	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
10:2 FTS	11	cn	4.5		ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	5.2	*1 cn	4.5		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	10	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorododecanoic acid	4.3	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroundecanoic acid	6.1	cn	1.8		ng/L	1		537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	15	cn	4.5		ng/L	1		537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	21	*1 cn	2.7		ng/L	1		537 IDA	Total/NA

Client Sample ID: PL-01-GW-56 — Lab Sample ID: 410-105580-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	12	*1 cn	1.7		ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PL-01-GW-56 (Continued) — Lab Sample ID: 410-105580-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	8.7	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	27	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	9.5	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorodecanoic acid	17	cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	2.6	cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	48	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	33	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
10:2 FTS	5.1	cn	4.4		ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	1.9	cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	7.4	*1 cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluorododecanoic acid	1.9	cn	1.7		ng/L	1		537 IDA	Total/NA
Perfluoroundecanoic acid	3.4	cn	1.7		ng/L	1		537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	5.8	cn	4.4		ng/L	1		537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	12	*1 cn	2.6		ng/L	1		537 IDA	Total/NA

Client Sample ID: RW6-69-GW-91 — Lab Sample ID: 410-105580-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	280	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	110	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	180	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	40	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorodecanoic acid	7.7	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	43	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	69	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanesulfonic acid	31	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	81	*1 cn	4.5		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	310	*1 cn	1.8		ng/L	1		537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	49	cn	4.5		ng/L	1		537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	5.3	*1 cn	2.7		ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - DL	1400	*1 cn	18		ng/L	10		537 IDA	Total/NA
Perfluorooctanesulfonic acid - DL	540	*1 cn	18		ng/L	10		537 IDA	Total/NA

Client Sample ID: RW15-32-GW-51 — Lab Sample ID: 410-105580-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	4.5		1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	3.0		1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	2.3		1.8		ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	14		1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	19		1.8		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	6.6		1.8		ng/L	1		537 IDA	Total/NA

Client Sample ID: RW15-29-GW-91 — Lab Sample ID: 410-105580-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	28	cn	2.0		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	5.9	cn	2.0		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	14	cn	2.0		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	3.0	cn	2.0		ng/L	1		537 IDA	Total/NA
Perfluorodecanoic acid	6.5	cn	2.0		ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	64	cn	2.0		ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RW15-29-GW-91 (Continued) — Lab Sample ID: 410-105580-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	6.1	cn	2.0		ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	2.6	cn	2.0		ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	16	cn	4.9		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	90	cn	2.0		ng/L	1		537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	4.6	cn	3.0		ng/L	1		537 IDA	Total/NA

Client Sample ID: RW15-30-GW-46 — Lab Sample ID: 410-105580-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	100		1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	25		1.8		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	1.9		1.8		ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	6.8		1.8		ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	6.1		1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanesulfonic acid	4.9		1.8		ng/L	1		537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	180		4.5		ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - DL	760		18		ng/L	10		537 IDA	Total/NA
Perfluorohexanesulfonic acid - DL	590		18		ng/L	10		537 IDA	Total/NA
Perfluorooctanesulfonic acid - DL	670		18		ng/L	10		537 IDA	Total/NA
Perfluorobutanoic acid - DL	230		45		ng/L	10		537 IDA	Total/NA
Perfluoropentanoic acid - DL	1600		18		ng/L	10		537 IDA	Total/NA

Client Sample ID: EB-110922 — Lab Sample ID: 410-105580-13

No Detections.

Client Sample ID: RW15-31-GW-46 — Lab Sample ID: 410-105580-14

No Detections.

Client Sample ID: RW15-06-GW-91 — Lab Sample ID: 410-105580-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	460	cn	20		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	120	cn	20		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	84	cn	20		ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	98	cn	50		ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	530	cn	20		ng/L	1		537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	3200	cn	50		ng/L	1		537 IDA	Total/NA

Client Sample ID: EB-111022 — Lab Sample ID: 410-105580-16

No Detections.

Client Sample ID: RW15-28-GW-46 — Lab Sample ID: 410-105580-17

No Detections.

Client Sample ID: RW15-28-GW-96 — Lab Sample ID: 410-105580-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.6	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	2.1	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	11	cn	1.8		ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	4.1	cn	1.8		ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RW15-28-GW-96 (Continued)

Lab Sample ID: 410-105580-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	11	cn	1.8		ng/L	1		537 IDA	Total/NA
10:2 FTS	5.7	cn	4.5		ng/L	1		537 IDA	Total/NA
Perfluoroundecanoic acid	2.3	cn	1.8		ng/L	1		537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	8.1	cn	2.7		ng/L	1		537 IDA	Total/NA

Client Sample ID: FB-111122

Lab Sample ID: 410-105580-19

No Detections.

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

Job ID: 410-105580-1

Client Sample ID: RW6-72-GW-31

Date Collected: 11/07/22 09:30
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-1

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**50**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluoroheptanoic acid	**40**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorooctanoic acid	**13**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorononanoic acid	**2.6**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorotetradecanoic acid	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorobutanesulfonic acid	**4.3**		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorohexanesulfonic acid	**98**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorooctanesulfonic acid	**48**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
NEtFOSAA	<2.7	*1	2.7		ng/L		11/20/22 12:47	12/03/22 02:26	1
NMeFOSAA	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
10:2 FTS	<4.5		4.5		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluoropentanesulfonic acid	**6.4**		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluoroheptanesulfonic acid	**2.5**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorononanesulfonic acid	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorooctanesulfonamide	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorohexadecanoic acid	<2.7	*1	2.7		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorooctadecanoic acid	<2.7	*1	2.7		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorobutanoic acid	**20**	***1**	4.5		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluoropentanoic acid	**65**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
NMeFOSE	<2.7	*1	2.7		ng/L		11/20/22 12:47	12/03/22 02:26	1
NMeFOSA	<2.7	*1	2.7		ng/L		11/20/22 12:47	12/03/22 02:26	1
NEtFOSE	<2.7	*1	2.7		ng/L		11/20/22 12:47	12/03/22 02:26	1
NEtFOSA	<4.5	*1	4.5		ng/L		11/20/22 12:47	12/03/22 02:26	1
HFPODA	<2.7	*1	2.7		ng/L		11/20/22 12:47	12/03/22 02:26	1
DONA	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
9Cl-PF3ONS	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
4:2 Fluorotelomer sulfonic acid	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:26	1
6:2 Fluorotelomer sulfonic acid	<4.5		4.5		ng/L		11/20/22 12:47	12/03/22 02:26	1
8:2 Fluorotelomer sulfonic acid	<2.7	*1	2.7		ng/L		11/20/22 12:47	12/03/22 02:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*125*		*10 - 200*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
M2-8:2 FTS	*92*		*33 - 200*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
M2-6:2 FTS	*99*		*17 - 200*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
13C5 PFHxA	*104*		*24 - 179*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
13C4 PFHpA	*103*		*31 - 182*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
13C8 PFOA	*101*		*48 - 162*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
13C9 PFNA	*101*		*51 - 167*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
13C6 PFDA	*94*		*49 - 163*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
13C7 PFUnA	*100*		*34 - 174*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
13C2-PFDoDA	*93*		*17 - 176*	*11/20/22 12:47*	*12/03/22 02:26*	*1*
13C2 PFTeDA	*100*		*10 - 179*	*11/20/22 12:47*	*12/03/22 02:26*	*1*

Client Sample ID: RW6-72-GW-31

Lab Sample ID: 410-105580-1

Date Collected: 11/07/22 09:30

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	123		16 - 200	11/20/22 12:47	12/03/22 02:26	1
13C3 PFHxS	103		28 - 188	11/20/22 12:47	12/03/22 02:26	1
13C8 PFOS	103		51 - 159	11/20/22 12:47	12/03/22 02:26	1
d3-NMeFOSAA	92		31 - 174	11/20/22 12:47	12/03/22 02:26	1
d5-NEtFOSAA	104		29 - 195	11/20/22 12:47	12/03/22 02:26	1
13C8 FOSA	87		10 - 168	11/20/22 12:47	12/03/22 02:26	1
13C4 PFBA	101		42 - 165	11/20/22 12:47	12/03/22 02:26	1
13C5 PFPeA	112		38 - 187	11/20/22 12:47	12/03/22 02:26	1
d7-N-MeFOSE-M	84		10 - 178	11/20/22 12:47	12/03/22 02:26	1
d3-NMePFOSA	79		10 - 155	11/20/22 12:47	12/03/22 02:26	1
d9-N-EtFOSE-M	85		10 - 177	11/20/22 12:47	12/03/22 02:26	1
d5-NEtPFOSA	84		10 - 159	11/20/22 12:47	12/03/22 02:26	1
13C3 HFPO-DA	101		17 - 185	11/20/22 12:47	12/03/22 02:26	1

Client Sample ID: RW6-72-GW-31 DUP

Lab Sample ID: 410-105580-2

Date Collected: 11/07/22 09:30

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**51**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluoroheptanoic acid	**41**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorooctanoic acid	**13**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorononanoic acid	**2.5**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorotetradecanoic acid	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorobutanesulfonic acid	**4.4**		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorohexanesulfonic acid	**95**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorooctanesulfonic acid	**50**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
NEtFOSAA	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 02:48	1
NMeFOSAA	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
10:2 FTS	<4.4		4.4		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluoropentanesulfonic acid	**6.5**		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluoroheptanesulfonic acid	**2.4**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorononanesulfonic acid	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorooctanesulfonamide	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorohexadecanoic acid	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorooctadecanoic acid	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorobutanoic acid	**20**	***1**	4.4		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluoropentanoic acid	**63**	***1**	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
NMeFOSE	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 02:48	1
NMeFOSA	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 02:48	1
NEtFOSE	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 02:48	1
NEtFOSA	<4.4	*1	4.4		ng/L		11/20/22 12:47	12/03/22 02:48	1
HFPODA	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 02:48	1
DONA	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1

Client Sample ID: RW6-72-GW-31 DUP

Lab Sample ID: 410-105580-2

Date Collected: 11/07/22 09:30

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
4:2 Fluorotelomer sulfonic acid	<1.8	*1	1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		11/20/22 12:47	12/03/22 02:48	1
6:2 Fluorotelomer sulfonic acid	<4.4		4.4		ng/L		11/20/22 12:47	12/03/22 02:48	1
8:2 Fluorotelomer sulfonic acid	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 02:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*154*		*10 - 200*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
M2-8:2 FTS	*96*		*33 - 200*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
M2-6:2 FTS	*115*		*17 - 200*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C5 PFHxA	*108*		*24 - 179*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C4 PFHpA	*106*		*31 - 182*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C8 PFOA	*106*		*48 - 162*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C9 PFNA	*109*		*51 - 167*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C6 PFDA	*98*		*49 - 163*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C7 PFUnA	*98*		*34 - 174*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C2-PFDoDA	*94*		*17 - 176*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C3 PFBS	*134*		*16 - 200*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C3 PFHxS	*110*		*28 - 188*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C8 PFOS	*105*		*51 - 159*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
d3-NMeFOSAA	*96*		*31 - 174*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
d5-NEtFOSAA	*102*		*29 - 195*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C8 FOSA	*92*		*10 - 168*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C4 PFBA	*111*		*42 - 165*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C5 PFPeA	*127*		*38 - 187*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
d7-N-MeFOSE-M	*84*		*10 - 178*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
d3-NMePFOSA	*75*		*10 - 155*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
d9-N-EtFOSE-M	*88*		*10 - 177*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
d5-NEtPFOSA	*79*		*10 - 159*	*11/20/22 12:47*	*12/03/22 02:48*	*1*
13C3 HFPO-DA	*104*		*17 - 185*	*11/20/22 12:47*	*12/03/22 02:48*	*1*

Client Sample ID: RW6-72-GW-81

Lab Sample ID: 410-105580-3

Date Collected: 11/07/22 10:45

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**19**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluoroheptanoic acid	**9.9**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorooctanoic acid	**35**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorononanoic acid	**14**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorodecanoic acid	**30**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorotridecanoic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorotetradecanoic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorobutanesulfonic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorohexanesulfonic acid	**2.6**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorooctanesulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
NEtFOSAA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 02:59	1

Client Sample ID: RW6-72-GW-81
Date Collected: 11/07/22 10:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-3
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
10:2 FTS	**7.3**	**cn**	4.5		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluoropentanesulfonic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluoroheptanesulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorononanesulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorodecanesulfonic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7	cn	2.7		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorooctanesulfonamide	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorohexadecanoic acid	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorooctadecanoic acid	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorobutanoic acid	<4.5	*1 cn	4.5		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluoropentanoic acid	**6.6**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
NMeFOSE	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 02:59	1
NMeFOSA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 02:59	1
NEtFOSE	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 02:59	1
NEtFOSA	<4.5	*1 cn	4.5		ng/L		11/20/22 12:47	12/03/22 02:59	1
HFPODA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 02:59	1
DONA	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
9Cl-PF3ONS	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
11Cl-PF3OUdS	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluorododecanoic acid	**3.2**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
4:2 Fluorotelomer sulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
Perfluoroundecanoic acid	**5.0**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 02:59	1
6:2 Fluorotelomer sulfonic acid	**11**	**cn**	4.5		ng/L		11/20/22 12:47	12/03/22 02:59	1
8:2 Fluorotelomer sulfonic acid	**23**	***1 cn**	2.7		ng/L		11/20/22 12:47	12/03/22 02:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*148*	*cn*	*10 - 200*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
M2-8:2 FTS	*87*	*cn*	*33 - 200*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
M2-6:2 FTS	*110*	*cn*	*17 - 200*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C5 PFHxA	*102*	*cn*	*24 - 179*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C4 PFHpA	*103*	*cn*	*31 - 182*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C8 PFOA	*95*	*cn*	*48 - 162*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C9 PFNA	*96*	*cn*	*51 - 167*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C6 PFDA	*83*	*cn*	*49 - 163*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C7 PFUnA	*78*	*cn*	*34 - 174*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C2-PFDoDA	*71*	*cn*	*17 - 176*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C2 PFTeDA	*79*	*cn*	*10 - 179*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C3 PFBS	*105*	*cn*	*16 - 200*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C3 PFHxS	*104*	*cn*	*28 - 188*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C8 PFOS	*91*	*cn*	*51 - 159*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
d3-NMeFOSAA	*85*	*cn*	*31 - 174*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
d5-NEtFOSAA	*86*	*cn*	*29 - 195*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C8 FOSA	*76*	*cn*	*10 - 168*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C4 PFBA	*95*	*cn*	*42 - 165*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
13C5 PFPeA	*100*	*cn*	*38 - 187*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
d7-N-MeFOSE-M	*59*	*cn*	*10 - 178*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
d3-NMePFOSA	*58*	*cn*	*10 - 155*	*11/20/22 12:47*	*12/03/22 02:59*	*1*
d9-N-EtFOSE-M	*59*	*cn*	*10 - 177*	*11/20/22 12:47*	*12/03/22 02:59*	*1*

Client Sample ID: RW6-72-GW-81

Lab Sample ID: 410-105580-3

Date Collected: 11/07/22 10:45

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	59	cn	10 - 159	11/20/22 12:47	12/03/22 02:59	1
13C3 HFPO-DA	91	cn	17 - 185	11/20/22 12:47	12/03/22 02:59	1

Client Sample ID: RW15-27-GW-81

Lab Sample ID: 410-105580-4

Date Collected: 11/07/22 13:55

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**18**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluoroheptanoic acid	**11**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorooctanoic acid	**39**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorononanoic acid	**14**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorodecanoic acid	**28**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorotridecanoic acid	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorotetradecanoic acid	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorobutanesulfonic acid	**3.6**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorohexanesulfonic acid	**50**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorooctanesulfonic acid	**8.7**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
NEtFOSAA	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:10	1
NMeFOSAA	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
10:2 FTS	**6.9**	**cn**	4.4		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluoropentanesulfonic acid	**4.2**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluoroheptanesulfonic acid	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorononanesulfonic acid	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorodecanesulfonic acid	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6	cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorooctanesulfonamide	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorohexadecanoic acid	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorooctadecanoic acid	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorobutanoic acid	<4.4	*1 cn	4.4		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluoropentanoic acid	**5.7**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
NMeFOSE	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:10	1
NMeFOSA	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:10	1
NEtFOSE	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:10	1
NEtFOSA	<4.4	*1 cn	4.4		ng/L		11/20/22 12:47	12/03/22 03:10	1
HFPODA	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:10	1
DONA	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
9Cl-PF3ONS	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
11Cl-PF3OUdS	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluorododecanoic acid	**2.8**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
4:2 Fluorotelomer sulfonic acid	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
Perfluoroundecanoic acid	**5.2**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:10	1
6:2 Fluorotelomer sulfonic acid	**9.7**	**cn**	4.4		ng/L		11/20/22 12:47	12/03/22 03:10	1
8:2 Fluorotelomer sulfonic acid	**18**	***1 cn**	2.6		ng/L		11/20/22 12:47	12/03/22 03:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	201	*5+ cn	10 - 200	11/20/22 12:47	12/03/22 03:10	1
M2-8:2 FTS	111	cn	33 - 200	11/20/22 12:47	12/03/22 03:10	1
M2-6:2 FTS	153	cn	17 - 200	11/20/22 12:47	12/03/22 03:10	1

Client Sample ID: RW15-27-GW-81

Lab Sample ID: 410-105580-4

Date Collected: 11/07/22 13:55

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFHxA	*99*	*cn*	*24 - 179*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C4 PFHpA	*98*	*cn*	*31 - 182*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C8 PFOA	*98*	*cn*	*48 - 162*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C9 PFNA	*108*	*cn*	*51 - 167*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C6 PFDA	*95*	*cn*	*49 - 163*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C7 PFUnA	*97*	*cn*	*34 - 174*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C2-PFDoDA	*88*	*cn*	*17 - 176*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C2 PFTeDA	*94*	*cn*	*10 - 179*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C3 PFBS	*106*	*cn*	*16 - 200*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C3 PFHxS	*106*	*cn*	*28 - 188*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C8 PFOS	*105*	*cn*	*51 - 159*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
d3-NMeFOSAA	*99*	*cn*	*31 - 174*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
d5-NEtFOSAA	*114*	*cn*	*29 - 195*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C8 FOSA	*87*	*cn*	*10 - 168*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C4 PFBA	*100*	*cn*	*42 - 165*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C5 PFPeA	*100*	*cn*	*38 - 187*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
d7-N-MeFOSE-M	*69*	*cn*	*10 - 178*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
d3-NMePFOSA	*65*	*cn*	*10 - 155*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
d9-N-EtFOSE-M	*73*	*cn*	*10 - 177*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
d5-NEtPFOSA	*65*	*cn*	*10 - 159*	*11/20/22 12:47*	*12/03/22 03:10*	*1*
13C3 HFPO-DA	*95*	*cn*	*17 - 185*	*11/20/22 12:47*	*12/03/22 03:10*	*1*

Client Sample ID: EB-110722

Lab Sample ID: 410-105580-5

Date Collected: 11/07/22 14:15

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluoroheptanoic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorooctanoic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorononanoic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorotetradecanoic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorohexanesulfonic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorooctanesulfonic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
NEtFOSAA	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 03:22	1
NMeFOSAA	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
10:2 FTS	<4.3		4.3		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluoroheptanesulfonic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorononanesulfonic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorooctanesulfonamide	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorohexadecanoic acid	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorooctadecanoic acid	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 03:22	1

Client Sample ID: EB-110722

Lab Sample ID: 410-105580-5

Date Collected: 11/07/22 14:15

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	<4.3	*1	4.3		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluoropentanoic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
NMeFOSE	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 03:22	1
NMeFOSA	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 03:22	1
NEtFOSE	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 03:22	1
NEtFOSA	<4.3	*1	4.3		ng/L		11/20/22 12:47	12/03/22 03:22	1
HFPODA	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 03:22	1
DONA	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
9Cl-PF3ONS	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
4:2 Fluorotelomer sulfonic acid	<1.7	*1	1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/20/22 12:47	12/03/22 03:22	1
6:2 Fluorotelomer sulfonic acid	<4.3		4.3		ng/L		11/20/22 12:47	12/03/22 03:22	1
8:2 Fluorotelomer sulfonic acid	<2.6	*1	2.6		ng/L		11/20/22 12:47	12/03/22 03:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 200*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
M2-8:2 FTS	*99*		*33 - 200*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
M2-6:2 FTS	*98*		*17 - 200*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C5 PFHxA	*106*		*24 - 179*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C4 PFHpA	*104*		*31 - 182*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C8 PFOA	*101*		*48 - 162*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C9 PFNA	*99*		*51 - 167*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C6 PFDA	*91*		*49 - 163*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C7 PFUnA	*91*		*34 - 174*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C2-PFDoDA	*90*		*17 - 176*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C2 PFTeDA	*96*		*10 - 179*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C3 PFBS	*95*		*16 - 200*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C3 PFHxS	*102*		*28 - 188*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C8 PFOS	*103*		*51 - 159*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
d3-NMeFOSAA	*99*		*31 - 174*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
d5-NEtFOSAA	*99*		*29 - 195*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C8 FOSA	*87*		*10 - 168*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C4 PFBA	*97*		*42 - 165*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C5 PFPeA	*95*		*38 - 187*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
d7-N-MeFOSE-M	*77*		*10 - 178*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
d3-NMePFOSA	*77*		*10 - 155*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
d9-N-EtFOSE-M	*79*		*10 - 177*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
d5-NEtPFOSA	*80*		*10 - 159*	*11/20/22 12:47*	*12/03/22 03:22*	*1*
13C3 HFPO-DA	*100*		*17 - 185*	*11/20/22 12:47*	*12/03/22 03:22*	*1*

Client Sample ID: SL-21-GW-51

Lab Sample ID: 410-105580-6

Date Collected: 11/08/22 08:45

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**220**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluoroheptanoic acid	**110**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorooctanoic acid	**48**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1

Client Sample ID: SL-21-GW-51
Date Collected: 11/08/22 08:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-6
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	**1.8**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorodecanoic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorotridecanoic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorotetradecanoic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorobutanesulfonic acid	**10**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorohexanesulfonic acid	**200**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
NEtFOSAA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:33	1
NMeFOSAA	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
10:2 FTS	<4.5	cn	4.5		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluoropentanesulfonic acid	**12**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluoroheptanesulfonic acid	**3.8**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorononanesulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorodecanesulfonic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7	cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorooctanesulfonamide	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorohexadecanoic acid	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorooctadecanoic acid	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorobutanoic acid	**78**	***1 cn**	4.5		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluoropentanoic acid	**280**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
NMeFOSE	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:33	1
NMeFOSA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:33	1
NEtFOSE	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:33	1
NEtFOSA	<4.5	*1 cn	4.5		ng/L		11/20/22 12:47	12/03/22 03:33	1
HFPODA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:33	1
DONA	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
9Cl-PF3ONS	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
11Cl-PF3OUdS	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluorododecanoic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
4:2 Fluorotelomer sulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
Perfluoroundecanoic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:33	1
6:2 Fluorotelomer sulfonic acid	**13**	**cn**	4.5		ng/L		11/20/22 12:47	12/03/22 03:33	1
8:2 Fluorotelomer sulfonic acid	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*164*	*cn*	*10 - 200*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
M2-8:2 FTS	*74*	*cn*	*33 - 200*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
M2-6:2 FTS	*115*	*cn*	*17 - 200*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C5 PFHxA	*83*	*cn*	*24 - 179*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C4 PFHpA	*86*	*cn*	*31 - 182*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C8 PFOA	*89*	*cn*	*48 - 162*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C9 PFNA	*90*	*cn*	*51 - 167*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C6 PFDA	*72*	*cn*	*49 - 163*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C7 PFUnA	*69*	*cn*	*34 - 174*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C2-PFDoDA	*64*	*cn*	*17 - 176*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C2 PFTeDA	*76*	*cn*	*10 - 179*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C3 PFBS	*121*	*cn*	*16 - 200*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C3 PFHxS	*92*	*cn*	*28 - 188*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
13C8 PFOS	*86*	*cn*	*51 - 159*	*11/20/22 12:47*	*12/03/22 03:33*	*1*
d3-NMeFOSAA	*69*	*cn*	*31 - 174*	*11/20/22 12:47*	*12/03/22 03:33*	*1*

Client Sample ID: SL-21-GW-51

Lab Sample ID: 410-105580-6

Date Collected: 11/08/22 08:45

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	76	cn	29 - 195	11/20/22 12:47	12/03/22 03:33	1
13C8 FOSA	60	cn	10 - 168	11/20/22 12:47	12/03/22 03:33	1
13C4 PFBA	93	cn	42 - 165	11/20/22 12:47	12/03/22 03:33	1
13C5 PFPeA	100	cn	38 - 187	11/20/22 12:47	12/03/22 03:33	1
d7-N-MeFOSE-M	55	cn	10 - 178	11/20/22 12:47	12/03/22 03:33	1
d3-NMePFOSA	52	cn	10 - 155	11/20/22 12:47	12/03/22 03:33	1
d9-N-EtFOSE-M	56	cn	10 - 177	11/20/22 12:47	12/03/22 03:33	1
d5-NEtPFOSA	56	cn	10 - 159	11/20/22 12:47	12/03/22 03:33	1
13C3 HFPO-DA	81	cn	17 - 185	11/20/22 12:47	12/03/22 03:33	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	**350**	***1 cn**	18		ng/L		11/20/22 12:47	12/05/22 13:49	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	81	cn	51 - 159	11/20/22 12:47	12/05/22 13:49	10

Client Sample ID: PL-02-GW-56

Lab Sample ID: 410-105580-7

Date Collected: 11/08/22 11:00

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**28**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluoroheptanoic acid	**13**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorooctanoic acid	**48**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorononanoic acid	**15**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorodecanoic acid	**31**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorotridecanoic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorotetradecanoic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorobutanesulfonic acid	**3.0**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorohexanesulfonic acid	**40**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorooctanesulfonic acid	**30**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
NEtFOSAA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:44	1
NMeFOSAA	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
10:2 FTS	**11**	**cn**	4.5		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluoropentanesulfonic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluoroheptanesulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorononanesulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorodecanesulfonic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7	cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorooctanesulfonamide	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorohexadecanoic acid	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorooctadecanoic acid	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorobutanoic acid	**5.2**	***1 cn**	4.5		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluoropentanoic acid	**10**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
NMeFOSE	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:44	1
NMeFOSA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:44	1
NEtFOSE	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:44	1
NEtFOSA	<4.5	*1 cn	4.5		ng/L		11/20/22 12:47	12/03/22 03:44	1

Client Sample ID: PL-02-GW-56

Lab Sample ID: 410-105580-7

Date Collected: 11/08/22 11:00

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 03:44	1
DONA	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
9Cl-PF3ONS	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
11Cl-PF3OUdS	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluorododecanoic acid	**4.3**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
4:2 Fluorotelomer sulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
Perfluoroundecanoic acid	**6.1**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 03:44	1
6:2 Fluorotelomer sulfonic acid	**15**	**cn**	4.5		ng/L		11/20/22 12:47	12/03/22 03:44	1
8:2 Fluorotelomer sulfonic acid	**21**	***1 cn**	2.7		ng/L		11/20/22 12:47	12/03/22 03:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*131*	*cn*	*10 - 200*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
M2-8:2 FTS	*96*	*cn*	*33 - 200*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
M2-6:2 FTS	*101*	*cn*	*17 - 200*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C5 PFHxA	*96*	*cn*	*24 - 179*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C4 PFHpA	*100*	*cn*	*31 - 182*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C8 PFOA	*92*	*cn*	*48 - 162*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C9 PFNA	*94*	*cn*	*51 - 167*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C6 PFDA	*87*	*cn*	*49 - 163*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C7 PFUnA	*89*	*cn*	*34 - 174*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C2-PFDoDA	*82*	*cn*	*17 - 176*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C2 PFTeDA	*93*	*cn*	*10 - 179*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C3 PFBS	*102*	*cn*	*16 - 200*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C3 PFHxS	*105*	*cn*	*28 - 188*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C8 PFOS	*97*	*cn*	*51 - 159*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
d3-NMeFOSAA	*94*	*cn*	*31 - 174*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
d5-NEtFOSAA	*100*	*cn*	*29 - 195*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C8 FOSA	*79*	*cn*	*10 - 168*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C4 PFBA	*92*	*cn*	*42 - 165*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C5 PFPeA	*94*	*cn*	*38 - 187*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
d7-N-MeFOSE-M	*67*	*cn*	*10 - 178*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
d3-NMePFOSA	*62*	*cn*	*10 - 155*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
d9-N-EtFOSE-M	*68*	*cn*	*10 - 177*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
d5-NEtPFOSA	*64*	*cn*	*10 - 159*	*11/20/22 12:47*	*12/03/22 03:44*	*1*
13C3 HFPO-DA	*102*	*cn*	*17 - 185*	*11/20/22 12:47*	*12/03/22 03:44*	*1*

Client Sample ID: PL-01-GW-56

Lab Sample ID: 410-105580-8

Date Collected: 11/08/22 12:45

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**12**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluoroheptanoic acid	**8.7**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorooctanoic acid	**27**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorononanoic acid	**9.5**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorodecanoic acid	**17**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorotridecanoic acid	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorotetradecanoic acid	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorobutanesulfonic acid	**2.6**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorohexanesulfonic acid	**48**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1

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

Job ID: 410-105580-1

Client Sample ID: PL-01-GW-56

Date Collected: 11/08/22 12:45
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-8

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	**33**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
NEtFOSAA	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:55	1
NMeFOSAA	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
10:2 FTS	**5.1**	**cn**	4.4		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluoropentanesulfonic acid	**1.9**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluoroheptanesulfonic acid	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorononanesulfonic acid	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorodecanesulfonic acid	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6	cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorooctanesulfonamide	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorohexadecanoic acid	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorooctadecanoic acid	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorobutanoic acid	<4.4	*1 cn	4.4		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluoropentanoic acid	**7.4**	***1 cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
NMeFOSE	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:55	1
NMeFOSA	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:55	1
NEtFOSE	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:55	1
NEtFOSA	<4.4	*1 cn	4.4		ng/L		11/20/22 12:47	12/03/22 03:55	1
HFPODA	<2.6	*1 cn	2.6		ng/L		11/20/22 12:47	12/03/22 03:55	1
DONA	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
9Cl-PF3ONS	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
11Cl-PF3OUdS	<1.7	cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluorododecanoic acid	**1.9**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
4:2 Fluorotelomer sulfonic acid	<1.7	*1 cn	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
Perfluoroundecanoic acid	**3.4**	**cn**	1.7		ng/L		11/20/22 12:47	12/03/22 03:55	1
6:2 Fluorotelomer sulfonic acid	**5.8**	**cn**	4.4		ng/L		11/20/22 12:47	12/03/22 03:55	1
8:2 Fluorotelomer sulfonic acid	**12**	***1 cn**	2.6		ng/L		11/20/22 12:47	12/03/22 03:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*140*	*cn*	*10 - 200*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
M2-8:2 FTS	*81*	*cn*	*33 - 200*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
M2-6:2 FTS	*100*	*cn*	*17 - 200*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C5 PFHxA	*96*	*cn*	*24 - 179*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C4 PFHpA	*96*	*cn*	*31 - 182*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C8 PFOA	*93*	*cn*	*48 - 162*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C9 PFNA	*92*	*cn*	*51 - 167*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C6 PFDA	*80*	*cn*	*49 - 163*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C7 PFUnA	*82*	*cn*	*34 - 174*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C2-PFDoDA	*75*	*cn*	*17 - 176*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C2 PFTeDA	*85*	*cn*	*10 - 179*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C3 PFBS	*105*	*cn*	*16 - 200*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C3 PFHxS	*99*	*cn*	*28 - 188*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C8 PFOS	*91*	*cn*	*51 - 159*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
d3-NMeFOSAA	*86*	*cn*	*31 - 174*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
d5-NEtFOSAA	*90*	*cn*	*29 - 195*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C8 FOSA	*68*	*cn*	*10 - 168*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C4 PFBA	*92*	*cn*	*42 - 165*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
13C5 PFPeA	*96*	*cn*	*38 - 187*	*11/20/22 12:47*	*12/03/22 03:55*	*1*
d7-N-MeFOSE-M	*59*	*cn*	*10 - 178*	*11/20/22 12:47*	*12/03/22 03:55*	*1*

Client Sample ID: PL-01-GW-56

Lab Sample ID: 410-105580-8

Date Collected: 11/08/22 12:45

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	40	cn	10 - 155	11/20/22 12:47	12/03/22 03:55	1
d9-N-EtFOSE-M	59	cn	10 - 177	11/20/22 12:47	12/03/22 03:55	1
d5-NEtPFOSA	43	cn	10 - 159	11/20/22 12:47	12/03/22 03:55	1
13C3 HFPO-DA	82	cn	17 - 185	11/20/22 12:47	12/03/22 03:55	1

Client Sample ID: RW6-69-GW-91

Lab Sample ID: 410-105580-9

Date Collected: 11/08/22 14:55

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**280**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluoroheptanoic acid	**110**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorooctanoic acid	**180**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorononanoic acid	**40**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorodecanoic acid	**7.7**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorotridecanoic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorotetradecanoic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorobutanesulfonic acid	**43**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
NEtFOSAA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 04:06	1
NMeFOSAA	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
10:2 FTS	<4.5	cn	4.5		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluoropentanesulfonic acid	**69**	**cn**	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluoroheptanesulfonic acid	**31**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorononanesulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorodecanesulfonic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7	cn	2.7		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorooctanesulfonamide	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorohexadecanoic acid	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorooctadecanoic acid	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorobutanoic acid	**81**	***1 cn**	4.5		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluoropentanoic acid	**310**	***1 cn**	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
NMeFOSE	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 04:06	1
NMeFOSA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 04:06	1
NEtFOSE	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 04:06	1
NEtFOSA	<4.5	*1 cn	4.5		ng/L		11/20/22 12:47	12/03/22 04:06	1
HFPODA	<2.7	*1 cn	2.7		ng/L		11/20/22 12:47	12/03/22 04:06	1
DONA	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
9Cl-PF3ONS	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
11Cl-PF3OUdS	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluorododecanoic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
4:2 Fluorotelomer sulfonic acid	<1.8	*1 cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
Perfluoroundecanoic acid	<1.8	cn	1.8		ng/L		11/20/22 12:47	12/03/22 04:06	1
6:2 Fluorotelomer sulfonic acid	**49**	**cn**	4.5		ng/L		11/20/22 12:47	12/03/22 04:06	1
8:2 Fluorotelomer sulfonic acid	**5.3**	***1 cn**	2.7		ng/L		11/20/22 12:47	12/03/22 04:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	161	cn	10 - 200	11/20/22 12:47	12/03/22 04:06	1
M2-8:2 FTS	93	cn	33 - 200	11/20/22 12:47	12/03/22 04:06	1
M2-6:2 FTS	119	cn	17 - 200	11/20/22 12:47	12/03/22 04:06	1

Client Sample ID: RW6-69-GW-91

Lab Sample ID: 410-105580-9

Date Collected: 11/08/22 14:55

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	78	cn	24 - 179	11/20/22 12:47	12/03/22 04:06	1
13C4 PFHpA	58	cn	31 - 182	11/20/22 12:47	12/03/22 04:06	1
13C8 PFOA	79	cn	48 - 162	11/20/22 12:47	12/03/22 04:06	1
13C9 PFNA	85	cn	51 - 167	11/20/22 12:47	12/03/22 04:06	1
13C6 PFDA	73	cn	49 - 163	11/20/22 12:47	12/03/22 04:06	1
13C7 PFUnA	71	cn	34 - 174	11/20/22 12:47	12/03/22 04:06	1
13C2-PFDoDA	67	cn	17 - 176	11/20/22 12:47	12/03/22 04:06	1
13C2 PFTeDA	77	cn	10 - 179	11/20/22 12:47	12/03/22 04:06	1
13C3 PFBS	96	cn	16 - 200	11/20/22 12:47	12/03/22 04:06	1
13C3 PFHxS	67	cn	28 - 188	11/20/22 12:47	12/03/22 04:06	1
13C8 PFOS	83	cn	51 - 159	11/20/22 12:47	12/03/22 04:06	1
d3-NMeFOSAA	73	cn	31 - 174	11/20/22 12:47	12/03/22 04:06	1
d5-NEtFOSAA	80	cn	29 - 195	11/20/22 12:47	12/03/22 04:06	1
13C8 FOSA	71	cn	10 - 168	11/20/22 12:47	12/03/22 04:06	1
13C4 PFBA	87	cn	42 - 165	11/20/22 12:47	12/03/22 04:06	1
13C5 PFPeA	82	cn	38 - 187	11/20/22 12:47	12/03/22 04:06	1
d7-N-MeFOSE-M	52	cn	10 - 178	11/20/22 12:47	12/03/22 04:06	1
d3-NMePFOSA	47	cn	10 - 155	11/20/22 12:47	12/03/22 04:06	1
d9-N-EtFOSE-M	51	cn	10 - 177	11/20/22 12:47	12/03/22 04:06	1
d5-NEtPFOSA	49	cn	10 - 159	11/20/22 12:47	12/03/22 04:06	1
13C3 HFPO-DA	81	cn	17 - 185	11/20/22 12:47	12/03/22 04:06	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	**1400**	***1 cn**	18		ng/L		11/20/22 12:47	12/05/22 14:00	10
Perfluorooctanesulfonic acid	**540**	***1 cn**	18		ng/L		11/20/22 12:47	12/05/22 14:00	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	89	cn	28 - 188	11/20/22 12:47	12/05/22 14:00	10
13C8 PFOS	82	cn	51 - 159	11/20/22 12:47	12/05/22 14:00	10

Client Sample ID: RW15-32-GW-51

Lab Sample ID: 410-105580-10

Date Collected: 11/09/22 09:00

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**4.5**		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluoroheptanoic acid	**3.0**		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorooctanoic acid	**2.3**		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorononanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorohexanesulfonic acid	**14**		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorooctanesulfonic acid	**19**		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
NEtFOSAA	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:14	1
NMeFOSAA	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
10:2 FTS	<4.5		4.5		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1

Client Sample ID: RW15-32-GW-51
Date Collected: 11/09/22 09:00
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-10
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorobutanoic acid	<4.5		4.5		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluoropentanoic acid	**6.6**		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
NMeFOSE	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:14	1
NMeFOSA	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:14	1
NEtFOSE	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:14	1
NEtFOSA	<4.5		4.5		ng/L		11/22/22 16:40	11/29/22 01:14	1
HFPODA	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:14	1
DONA	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
9Cl-PF3ONS	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:14	1
6:2 Fluorotelomer sulfonic acid	<4.5		4.5		ng/L		11/22/22 16:40	11/29/22 01:14	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*158*		*10 - 200*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
M2-8:2 FTS	*104*		*33 - 200*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
M2-6:2 FTS	*129*		*17 - 200*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C5 PFHxA	*114*		*24 - 179*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C4 PFHpA	*126*		*31 - 182*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C8 PFOA	*121*		*48 - 162*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C9 PFNA	*113*		*51 - 167*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C6 PFDA	*101*		*49 - 163*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C7 PFUnA	*83*		*34 - 174*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C2-PFDoDA	*82*		*17 - 176*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C2 PFTeDA	*80*		*10 - 179*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C3 PFBS	*131*		*16 - 200*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C3 PFHxS	*120*		*28 - 188*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C8 PFOS	*111*		*51 - 159*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
d3-NMeFOSAA	*85*		*31 - 174*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
d5-NEtFOSAA	*88*		*29 - 195*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C8 FOSA	*90*		*10 - 168*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C4 PFBA	*118*		*42 - 165*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C5 PFPeA	*122*		*38 - 187*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
d7-N-MeFOSE-M	*76*		*10 - 178*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
d3-NMePFOSA	*62*		*10 - 155*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
d9-N-EtFOSE-M	*73*		*10 - 177*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
d5-NEtPFOSA	*63*		*10 - 159*	*11/22/22 16:40*	*11/29/22 01:14*	*1*
13C3 HFPO-DA	*105*		*17 - 185*	*11/22/22 16:40*	*11/29/22 01:14*	*1*

Client Sample ID: RW15-29-GW-91

Date Collected: 11/09/22 10:35
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-11

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**28**	**cn**	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluoroheptanoic acid	**5.9**	**cn**	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorooctanoic acid	**14**	**cn**	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorononanoic acid	**3.0**	**cn**	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorodecanoic acid	**6.5**	**cn**	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorotridecanoic acid	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorotetradecanoic acid	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorobutanesulfonic acid	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorohexanesulfonic acid	**64**	**cn**	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorooctanesulfonic acid	**6.1**	**cn**	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
NEtFOSAA	<3.0	cn	3.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
NMeFOSAA	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
10:2 FTS	<4.9	cn	4.9		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluoropentanesulfonic acid	**2.6**	**cn**	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluoroheptanesulfonic acid	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorononanesulfonic acid	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorodecanesulfonic acid	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0	cn	3.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorooctanesulfonamide	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorohexadecanoic acid	<3.0	cn	3.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorooctadecanoic acid	<3.0	cn	3.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorobutanoic acid	**16**	**cn**	4.9		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluoropentanoic acid	**90**	**cn**	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
NMeFOSE	<3.0	cn	3.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
NMeFOSA	<3.0	cn	3.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
NEtFOSE	<3.0	cn	3.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
NEtFOSA	<4.9	cn	4.9		ng/L		11/22/22 16:40	11/29/22 01:25	1
HFPODA	<3.0	cn	3.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
DONA	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
9Cl-PF3ONS	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
11Cl-PF3OUdS	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluorododecanoic acid	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
4:2 Fluorotelomer sulfonic acid	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
Perfluoroundecanoic acid	<2.0	cn	2.0		ng/L		11/22/22 16:40	11/29/22 01:25	1
6:2 Fluorotelomer sulfonic acid	<4.9	cn	4.9		ng/L		11/22/22 16:40	11/29/22 01:25	1
8:2 Fluorotelomer sulfonic acid	**4.6**	**cn**	3.0		ng/L		11/22/22 16:40	11/29/22 01:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*227*	**5+ cn*	*10 - 200*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
M2-8:2 FTS	*114*	*cn*	*33 - 200*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
M2-6:2 FTS	*163*	*cn*	*17 - 200*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
13C5 PFHxA	*98*	*cn*	*24 - 179*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
13C4 PFHpA	*113*	*cn*	*31 - 182*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
13C8 PFOA	*108*	*cn*	*48 - 162*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
13C9 PFNA	*120*	*cn*	*51 - 167*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
13C6 PFDA	*102*	*cn*	*49 - 163*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
13C7 PFUnA	*100*	*cn*	*34 - 174*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
13C2-PFDoDA	*95*	*cn*	*17 - 176*	*11/22/22 16:40*	*11/29/22 01:25*	*1*
13C2 PFTeDA	*86*	*cn*	*10 - 179*	*11/22/22 16:40*	*11/29/22 01:25*	*1*

Client Sample ID: RW15-29-GW-91

Lab Sample ID: 410-105580-11

Date Collected: 11/09/22 10:35

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	149	cn	16 - 200	11/22/22 16:40	11/29/22 01:25	1
13C3 PFHxS	119	cn	28 - 188	11/22/22 16:40	11/29/22 01:25	1
13C8 PFOS	123	cn	51 - 159	11/22/22 16:40	11/29/22 01:25	1
d3-NMeFOSAA	102	cn	31 - 174	11/22/22 16:40	11/29/22 01:25	1
d5-NEtFOSAA	108	cn	29 - 195	11/22/22 16:40	11/29/22 01:25	1
13C8 FOSA	102	cn	10 - 168	11/22/22 16:40	11/29/22 01:25	1
13C4 PFBA	108	cn	42 - 165	11/22/22 16:40	11/29/22 01:25	1
13C5 PFPeA	113	cn	38 - 187	11/22/22 16:40	11/29/22 01:25	1
d7-N-MeFOSE-M	82	cn	10 - 178	11/22/22 16:40	11/29/22 01:25	1
d3-NMePFOSA	62	cn	10 - 155	11/22/22 16:40	11/29/22 01:25	1
d9-N-EtFOSE-M	79	cn	10 - 177	11/22/22 16:40	11/29/22 01:25	1
d5-NEtPFOSA	66	cn	10 - 159	11/22/22 16:40	11/29/22 01:25	1
13C3 HFPO-DA	89	cn	17 - 185	11/22/22 16:40	11/29/22 01:25	1

Client Sample ID: RW15-30-GW-46

Lab Sample ID: 410-105580-12

Date Collected: 11/09/22 13:15

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**100**		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorooctanoic acid	**25**		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorononanoic acid	**1.9**		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorobutanesulfonic acid	**6.8**		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
NEtFOSAA	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:36	1
NMeFOSAA	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
10:2 FTS	<4.5		4.5		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluoropentanesulfonic acid	**6.1**		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluoroheptanesulfonic acid	**4.9**		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:36	1
NMeFOSE	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:36	1
NMeFOSA	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:36	1
NEtFOSE	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:36	1
NEtFOSA	<4.5		4.5		ng/L		11/22/22 16:40	11/29/22 01:36	1
HFPODA	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:36	1
DONA	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
9Cl-PF3ONS	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:36	1

Client Sample ID: RW15-30-GW-46

Date Collected: 11/09/22 13:15
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-12

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	**180**		4.5		ng/L		11/22/22 16:40	11/29/22 01:36	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*169*		*10 - 200*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
M2-8:2 FTS	*90*		*33 - 200*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
M2-6:2 FTS	*125*		*17 - 200*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C5 PFHxA	*65*		*24 - 179*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C4 PFHpA	*74*		*31 - 182*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C8 PFOA	*98*		*48 - 162*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C9 PFNA	*95*		*51 - 167*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C6 PFDA	*81*		*49 - 163*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C7 PFUnA	*79*		*34 - 174*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C2-PFDoDA	*70*		*17 - 176*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C2 PFTeDA	*69*		*10 - 179*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C3 PFBS	*141*		*16 - 200*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C3 PFHxS	*74*		*28 - 188*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C8 PFOS	*87*		*51 - 159*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
d3-NMeFOSAA	*65*		*31 - 174*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
d5-NEtFOSAA	*64*		*29 - 195*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C8 FOSA	*84*		*10 - 168*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C4 PFBA	*98*		*42 - 165*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C5 PFPeA	*72*		*38 - 187*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
d7-N-MeFOSE-M	*73*		*10 - 178*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
d3-NMePFOSA	*62*		*10 - 155*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
d9-N-EtFOSE-M	*74*		*10 - 177*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
d5-NEtPFOSA	*68*		*10 - 159*	*11/22/22 16:40*	*11/29/22 01:36*	*1*
13C3 HFPO-DA	*80*		*17 - 185*	*11/22/22 16:40*	*11/29/22 01:36*	*1*

Method: EPA 537 IDA - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**760**		18		ng/L		11/22/22 16:40	12/01/22 09:31	10
Perfluorohexanesulfonic acid	**590**		18		ng/L		11/22/22 16:40	12/01/22 09:31	10
Perfluorooctanesulfonic acid	**670**		18		ng/L		11/22/22 16:40	12/01/22 09:31	10
Perfluorobutanoic acid	**230**		45		ng/L		11/22/22 16:40	12/01/22 09:31	10
Perfluoropentanoic acid	**1600**		18		ng/L		11/22/22 16:40	12/01/22 09:31	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFHxA	*91*		*24 - 179*	*11/22/22 16:40*	*12/01/22 09:31*	*10*
13C3 PFHxS	*100*		*28 - 188*	*11/22/22 16:40*	*12/01/22 09:31*	*10*
13C8 PFOS	*90*		*51 - 159*	*11/22/22 16:40*	*12/01/22 09:31*	*10*
13C4 PFBA	*103*		*42 - 165*	*11/22/22 16:40*	*12/01/22 09:31*	*10*
13C5 PFPeA	*92*		*38 - 187*	*11/22/22 16:40*	*12/01/22 09:31*	*10*

Client Sample ID: EB-110922

Date Collected: 11/09/22 13:35
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-13

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1

Client Sample ID: EB-110922
Date Collected: 11/09/22 13:35
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-13
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorononanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
NEtFOSAA	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:58	1
NMeFOSAA	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
10:2 FTS	<4.4		4.4		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorobutanoic acid	<4.4		4.4		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
NMeFOSE	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:58	1
NMeFOSA	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:58	1
NEtFOSE	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:58	1
NEtFOSA	<4.4		4.4		ng/L		11/22/22 16:40	11/29/22 01:58	1
HFPODA	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:58	1
DONA	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
9Cl-PF3ONS	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		11/22/22 16:40	11/29/22 01:58	1
6:2 Fluorotelomer sulfonic acid	<4.4		4.4		ng/L		11/22/22 16:40	11/29/22 01:58	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		11/22/22 16:40	11/29/22 01:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*112*		*10 - 200*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
M2-8:2 FTS	*110*		*33 - 200*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
M2-6:2 FTS	*110*		*17 - 200*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C5 PFHxA	*116*		*24 - 179*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C4 PFHpA	*122*		*31 - 182*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C8 PFOA	*116*		*48 - 162*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C9 PFNA	*112*		*51 - 167*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C6 PFDA	*103*		*49 - 163*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C7 PFUnA	*94*		*34 - 174*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C2-PFDoDA	*92*		*17 - 176*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C2 PFTeDA	*85*		*10 - 179*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C3 PFBS	*109*		*16 - 200*	*11/22/22 16:40*	*11/29/22 01:58*	*1*
13C3 PFHxS	*119*		*28 - 188*	*11/22/22 16:40*	*11/29/22 01:58*	*1*

Client Sample ID: EB-110922

Date Collected: 11/09/22 13:35
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-13

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	119		51 - 159	11/22/22 16:40	11/29/22 01:58	1
d3-NMeFOSAA	91		31 - 174	11/22/22 16:40	11/29/22 01:58	1
d5-NEtFOSAA	95		29 - 195	11/22/22 16:40	11/29/22 01:58	1
13C8 FOSA	94		10 - 168	11/22/22 16:40	11/29/22 01:58	1
13C4 PFBA	107		42 - 165	11/22/22 16:40	11/29/22 01:58	1
13C5 PFPeA	108		38 - 187	11/22/22 16:40	11/29/22 01:58	1
d7-N-MeFOSE-M	80		10 - 178	11/22/22 16:40	11/29/22 01:58	1
d3-NMePFOSA	67		10 - 155	11/22/22 16:40	11/29/22 01:58	1
d9-N-EtFOSE-M	80		10 - 177	11/22/22 16:40	11/29/22 01:58	1
d5-NEtPFOSA	82		10 - 159	11/22/22 16:40	11/29/22 01:58	1
13C3 HFPO-DA	104		17 - 185	11/22/22 16:40	11/29/22 01:58	1

Client Sample ID: RW15-31-GW-46

Date Collected: 11/09/22 14:15
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-14

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorononanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
NEtFOSAA	<2.6		2.6		ng/L		11/22/22 16:40	11/29/22 02:09	1
NMeFOSAA	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
10:2 FTS	<4.4		4.4		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluorobutanoic acid	<4.4		4.4		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
NMeFOSE	<2.6		2.6		ng/L		11/22/22 16:40	11/29/22 02:09	1
NMeFOSA	<2.6		2.6		ng/L		11/22/22 16:40	11/29/22 02:09	1
NEtFOSE	<2.6		2.6		ng/L		11/22/22 16:40	11/29/22 02:09	1
NEtFOSA	<4.4		4.4		ng/L		11/22/22 16:40	11/29/22 02:09	1
HFPODA	<2.6		2.6		ng/L		11/22/22 16:40	11/29/22 02:09	1
DONA	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
9Cl-PF3ONS	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1

Client Sample ID: RW15-31-GW-46

Lab Sample ID: 410-105580-14

Date Collected: 11/09/22 14:15

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/22/22 16:40	11/29/22 02:09	1
6:2 Fluorotelomer sulfonic acid	<4.4		4.4		ng/L		11/22/22 16:40	11/29/22 02:09	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		11/22/22 16:40	11/29/22 02:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*195*		*10 - 200*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
M2-8:2 FTS	*115*		*33 - 200*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
M2-6:2 FTS	*146*		*17 - 200*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C5 PFHxA	*103*		*24 - 179*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C4 PFHpA	*119*		*31 - 182*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C8 PFOA	*116*		*48 - 162*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C9 PFNA	*114*		*51 - 167*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C6 PFDA	*105*		*49 - 163*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C7 PFUnA	*93*		*34 - 174*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C2-PFDoDA	*92*		*17 - 176*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C2 PFTeDA	*83*		*10 - 179*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C3 PFBS	*167*		*16 - 200*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C3 PFHxS	*124*		*28 - 188*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C8 PFOS	*112*		*51 - 159*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
d3-NMeFOSAA	*97*		*31 - 174*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
d5-NEtFOSAA	*97*		*29 - 195*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C8 FOSA	*96*		*10 - 168*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C4 PFBA	*121*		*42 - 165*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C5 PFPeA	*127*		*38 - 187*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
d7-N-MeFOSE-M	*76*		*10 - 178*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
d3-NMePFOSA	*68*		*10 - 155*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
d9-N-EtFOSE-M	*75*		*10 - 177*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
d5-NEtPFOSA	*69*		*10 - 159*	*11/22/22 16:40*	*11/29/22 02:09*	*1*
13C3 HFPO-DA	*92*		*17 - 185*	*11/22/22 16:40*	*11/29/22 02:09*	*1*

Client Sample ID: RW15-06-GW-91

Lab Sample ID: 410-105580-15

Date Collected: 11/10/22 11:55

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**460**	**cn**	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluoroheptanoic acid	**120**	**cn**	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorooctanoic acid	**84**	**cn**	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorononanoic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorodecanoic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorotridecanoic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorotetradecanoic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorobutanesulfonic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorohexanesulfonic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorooctanesulfonic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
NEtFOSAA	<30	cn	30		ng/L		11/22/22 15:30	11/29/22 20:49	1
NMeFOSAA	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
10:2 FTS	<50	cn	50		ng/L		11/22/22 15:30	11/29/22 20:49	1

Client Sample ID: RW15-06-GW-91
Date Collected: 11/10/22 11:55
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-15
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluoroheptanesulfonic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorononanesulfonic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorodecanesulfonic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorododecanesulfonic acid (PFDoS)	<30	cn	30		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorooctanesulfonamide	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorohexadecanoic acid	<30	cn	30		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorooctadecanoic acid	<30	cn	30		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorobutanoic acid	**98**	**cn**	50		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluoropentanoic acid	**530**	**cn**	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
NMeFOSE	<30	cn	30		ng/L		11/22/22 15:30	11/29/22 20:49	1
NMeFOSA	<30	cn	30		ng/L		11/22/22 15:30	11/29/22 20:49	1
NEtFOSE	<30	cn	30		ng/L		11/22/22 15:30	11/29/22 20:49	1
NEtFOSA	<50	cn	50		ng/L		11/22/22 15:30	11/29/22 20:49	1
HFPODA	<30	cn	30		ng/L		11/22/22 15:30	11/29/22 20:49	1
DONA	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
9Cl-PF3ONS	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
11Cl-PF3OUdS	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluorododecanoic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
4:2 Fluorotelomer sulfonic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
Perfluoroundecanoic acid	<20	cn	20		ng/L		11/22/22 15:30	11/29/22 20:49	1
6:2 Fluorotelomer sulfonic acid	**3200**	**cn**	50		ng/L		11/22/22 15:30	11/29/22 20:49	1
8:2 Fluorotelomer sulfonic acid	<30	cn	30		ng/L		11/22/22 15:30	11/29/22 20:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*111*	*cn*	*10 - 200*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
M2-8:2 FTS	*127*	*cn*	*33 - 200*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
M2-6:2 FTS	*113*	*cn*	*17 - 200*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C5 PFHxA	*95*	*cn*	*24 - 179*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C4 PFHpA	*102*	*cn*	*31 - 182*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C8 PFOA	*105*	*cn*	*48 - 162*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C9 PFNA	*115*	*cn*	*51 - 167*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C6 PFDA	*113*	*cn*	*49 - 163*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C7 PFUnA	*115*	*cn*	*34 - 174*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C2-PFDoDA	*120*	*cn*	*17 - 176*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C2 PFTeDA	*129*	*cn*	*10 - 179*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C3 PFBS	*118*	*cn*	*16 - 200*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C3 PFHxS	*104*	*cn*	*28 - 188*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C8 PFOS	*118*	*cn*	*51 - 159*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
d3-NMeFOSAA	*136*	*cn*	*31 - 174*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
d5-NEtFOSAA	*146*	*cn*	*29 - 195*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C8 FOSA	*111*	*cn*	*10 - 168*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C4 PFBA	*111*	*cn*	*42 - 165*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C5 PFPeA	*112*	*cn*	*38 - 187*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
d7-N-MeFOSE-M	*112*	*cn*	*10 - 178*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
d3-NMePFOSA	*88*	*cn*	*10 - 155*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
d9-N-EtFOSE-M	*103*	*cn*	*10 - 177*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
d5-NEtPFOSA	*86*	*cn*	*10 - 159*	*11/22/22 15:30*	*11/29/22 20:49*	*1*
13C3 HFPO-DA	*91*	*cn*	*17 - 185*	*11/22/22 15:30*	*11/29/22 20:49*	*1*

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

Job ID: 410-105580-1

Client Sample ID: EB-111022

Date Collected: 11/10/22 12:30
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-16

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorononanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
NEtFOSAA	<2.5		2.5		ng/L		11/22/22 15:30	11/29/22 21:00	1
NMeFOSAA	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
10:2 FTS	<4.2		4.2		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorobutanoic acid	<4.2		4.2		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
NMeFOSE	<2.5		2.5		ng/L		11/22/22 15:30	11/29/22 21:00	1
NMeFOSA	<2.5		2.5		ng/L		11/22/22 15:30	11/29/22 21:00	1
NEtFOSE	<2.5		2.5		ng/L		11/22/22 15:30	11/29/22 21:00	1
NEtFOSA	<4.2		4.2		ng/L		11/22/22 15:30	11/29/22 21:00	1
HFPODA	<2.5		2.5		ng/L		11/22/22 15:30	11/29/22 21:00	1
DONA	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
9Cl-PF3ONS	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:00	1
6:2 Fluorotelomer sulfonic acid	<4.2		4.2		ng/L		11/22/22 15:30	11/29/22 21:00	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		11/22/22 15:30	11/29/22 21:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*111*		*10 - 200*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
M2-8:2 FTS	*104*		*33 - 200*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
M2-6:2 FTS	*127*		*17 - 200*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
13C5 PFHxA	*98*		*24 - 179*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
13C4 PFHpA	*101*		*31 - 182*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
13C8 PFOA	*99*		*48 - 162*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
13C9 PFNA	*109*		*51 - 167*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
13C6 PFDA	*111*		*49 - 163*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
13C7 PFUnA	*100*		*34 - 174*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
13C2-PFDoDA	*107*		*17 - 176*	*11/22/22 15:30*	*11/29/22 21:00*	*1*
13C2 PFTeDA	*128*		*10 - 179*	*11/22/22 15:30*	*11/29/22 21:00*	*1*

Client Sample ID: EB-111022

Date Collected: 11/10/22 12:30
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-16

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	113		16 - 200	11/22/22 15:30	11/29/22 21:00	1
13C3 PFHxS	105		28 - 188	11/22/22 15:30	11/29/22 21:00	1
13C8 PFOS	108		51 - 159	11/22/22 15:30	11/29/22 21:00	1
d3-NMeFOSAA	133		31 - 174	11/22/22 15:30	11/29/22 21:00	1
d5-NEtFOSAA	126		29 - 195	11/22/22 15:30	11/29/22 21:00	1
13C8 FOSA	100		10 - 168	11/22/22 15:30	11/29/22 21:00	1
13C4 PFBA	105		42 - 165	11/22/22 15:30	11/29/22 21:00	1
13C5 PFPeA	102		38 - 187	11/22/22 15:30	11/29/22 21:00	1
d7-N-MeFOSE-M	100		10 - 178	11/22/22 15:30	11/29/22 21:00	1
d3-NMePFOSA	84		10 - 155	11/22/22 15:30	11/29/22 21:00	1
d9-N-EtFOSE-M	110		10 - 177	11/22/22 15:30	11/29/22 21:00	1
d5-NEtPFOSA	85		10 - 159	11/22/22 15:30	11/29/22 21:00	1
13C3 HFPO-DA	85		17 - 185	11/22/22 15:30	11/29/22 21:00	1

Client Sample ID: RW15-28-GW-46

Date Collected: 11/10/22 13:35
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-17

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorononanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
NEtFOSAA	<2.6		2.6		ng/L		11/22/22 15:30	11/29/22 21:22	1
NMeFOSAA	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
10:2 FTS	<4.3		4.3		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorobutanoic acid	<4.3		4.3		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
NMeFOSE	<2.6		2.6		ng/L		11/22/22 15:30	11/29/22 21:22	1
NMeFOSA	<2.6		2.6		ng/L		11/22/22 15:30	11/29/22 21:22	1
NEtFOSE	<2.6		2.6		ng/L		11/22/22 15:30	11/29/22 21:22	1
NEtFOSA	<4.3		4.3		ng/L		11/22/22 15:30	11/29/22 21:22	1
HFPODA	<2.6		2.6		ng/L		11/22/22 15:30	11/29/22 21:22	1
DONA	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1

Client Sample ID: RW15-28-GW-46

Lab Sample ID: 410-105580-17

Date Collected: 11/10/22 13:35

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/22/22 15:30	11/29/22 21:22	1
6:2 Fluorotelomer sulfonic acid	<4.3		4.3		ng/L		11/22/22 15:30	11/29/22 21:22	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		11/22/22 15:30	11/29/22 21:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*131*		*10 - 200*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
M2-8:2 FTS	*95*		*33 - 200*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
M2-6:2 FTS	*116*		*17 - 200*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C5 PFHxA	*103*		*24 - 179*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C4 PFHpA	*99*		*31 - 182*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C8 PFOA	*92*		*48 - 162*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C9 PFNA	*93*		*51 - 167*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C6 PFDA	*84*		*49 - 163*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C7 PFUnA	*82*		*34 - 174*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C2-PFDoDA	*87*		*17 - 176*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C2 PFTeDA	*98*		*10 - 179*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C3 PFBS	*110*		*16 - 200*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C3 PFHxS	*107*		*28 - 188*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C8 PFOS	*95*		*51 - 159*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
d3-NMeFOSAA	*114*		*31 - 174*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
d5-NEtFOSAA	*95*		*29 - 195*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C8 FOSA	*49*		*10 - 168*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C4 PFBA	*101*		*42 - 165*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C5 PFPeA	*106*		*38 - 187*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
d7-N-MeFOSE-M	*34*		*10 - 178*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
d3-NMePFOSA	*9*	**5- cn*	*10 - 155*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
d9-N-EtFOSE-M	*35*		*10 - 177*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
d5-NEtPFOSA	*10*		*10 - 159*	*11/22/22 15:30*	*11/29/22 21:22*	*1*
13C3 HFPO-DA	*88*		*17 - 185*	*11/22/22 15:30*	*11/29/22 21:22*	*1*

Client Sample ID: RW15-28-GW-96

Lab Sample ID: 410-105580-18

Date Collected: 11/10/22 14:05

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**3.6**	**cn**	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluoroheptanoic acid	**2.1**	**cn**	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorooctanoic acid	**11**	**cn**	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorononanoic acid	**4.1**	**cn**	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorodecanoic acid	**11**	**cn**	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorotridecanoic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorotetradecanoic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorobutanesulfonic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorohexanesulfonic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorooctanesulfonic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
NEtFOSAA	<2.7	cn	2.7		ng/L		11/22/22 15:30	11/29/22 21:33	1

Client Sample ID: RW15-28-GW-96
Date Collected: 11/10/22 14:05
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-18
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
10:2 FTS	**5.7**	**cn**	4.5		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluoropentanesulfonic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluoroheptanesulfonic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorononanesulfonic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorodecanesulfonic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7	cn	2.7		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorooctanesulfonamide	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorohexadecanoic acid	<2.7	cn	2.7		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorooctadecanoic acid	<2.7	cn	2.7		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorobutanoic acid	<4.5	cn	4.5		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluoropentanoic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
NMeFOSE	<2.7	cn	2.7		ng/L		11/22/22 15:30	11/29/22 21:33	1
NMeFOSA	<2.7	cn	2.7		ng/L		11/22/22 15:30	11/29/22 21:33	1
NEtFOSE	<2.7	cn	2.7		ng/L		11/22/22 15:30	11/29/22 21:33	1
NEtFOSA	<4.5	cn	4.5		ng/L		11/22/22 15:30	11/29/22 21:33	1
HFPODA	<2.7	cn	2.7		ng/L		11/22/22 15:30	11/29/22 21:33	1
DONA	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
9Cl-PF3ONS	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
11Cl-PF3OUdS	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluorododecanoic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
4:2 Fluorotelomer sulfonic acid	<1.8	cn	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
Perfluoroundecanoic acid	**2.3**	**cn**	1.8		ng/L		11/22/22 15:30	11/29/22 21:33	1
6:2 Fluorotelomer sulfonic acid	<4.5	cn	4.5		ng/L		11/22/22 15:30	11/29/22 21:33	1
8:2 Fluorotelomer sulfonic acid	**8.1**	**cn**	2.7		ng/L		11/22/22 15:30	11/29/22 21:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*126*	*cn*	*10 - 200*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
M2-8:2 FTS	*109*	*cn*	*33 - 200*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
M2-6:2 FTS	*117*	*cn*	*17 - 200*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C5 PFHxA	*94*	*cn*	*24 - 179*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C4 PFHpA	*99*	*cn*	*31 - 182*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C8 PFOA	*98*	*cn*	*48 - 162*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C9 PFNA	*98*	*cn*	*51 - 167*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C6 PFDA	*97*	*cn*	*49 - 163*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C7 PFUnA	*96*	*cn*	*34 - 174*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C2-PFDoDA	*108*	*cn*	*17 - 176*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C2 PFTeDA	*118*	*cn*	*10 - 179*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C3 PFBS	*113*	*cn*	*16 - 200*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C3 PFHxS	*105*	*cn*	*28 - 188*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C8 PFOS	*104*	*cn*	*51 - 159*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
d3-NMeFOSAA	*126*	*cn*	*31 - 174*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
d5-NEtFOSAA	*130*	*cn*	*29 - 195*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C8 FOSA	*111*	*cn*	*10 - 168*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C4 PFBA	*109*	*cn*	*42 - 165*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
13C5 PFPeA	*106*	*cn*	*38 - 187*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
d7-N-MeFOSE-M	*50*	*cn*	*10 - 178*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
d3-NMePFOSA	*72*	*cn*	*10 - 155*	*11/22/22 15:30*	*11/29/22 21:33*	*1*
d9-N-EtFOSE-M	*53*	*cn*	*10 - 177*	*11/22/22 15:30*	*11/29/22 21:33*	*1*

Client Sample ID: RW15-28-GW-96

Lab Sample ID: 410-105580-18

Date Collected: 11/10/22 14:05

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	71	cn	10 - 159	11/22/22 15:30	11/29/22 21:33	1
13C3 HFPO-DA	83	cn	17 - 185	11/22/22 15:30	11/29/22 21:33	1

Client Sample ID: FB-111122

Lab Sample ID: 410-105580-19

Date Collected: 11/11/22 09:30

Matrix: Water

Date Received: 11/12/22 09:34

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorononanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorohexanesulfonic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
NEtFOSAA	<2.4		2.4		ng/L		11/23/22 15:21	12/04/22 19:50	1
NMeFOSAA	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
10:2 FTS	<4.0		4.0		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluoropentanesulfonic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluoroheptanesulfonic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorononanesulfonic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorodecanesulfonic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorododecanesulfonic acid (PFDoS)	<2.4		2.4		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorooctanesulfonamide	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorohexadecanoic acid	<2.4		2.4		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorooctadecanoic acid	<2.4		2.4		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorobutanoic acid	<4.0		4.0		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluoropentanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
NMeFOSE	<2.4		2.4		ng/L		11/23/22 15:21	12/04/22 19:50	1
NMeFOSA	<2.4		2.4		ng/L		11/23/22 15:21	12/04/22 19:50	1
NEtFOSE	<2.4		2.4		ng/L		11/23/22 15:21	12/04/22 19:50	1
NEtFOSA	<4.0		4.0		ng/L		11/23/22 15:21	12/04/22 19:50	1
HFPODA	<2.4		2.4		ng/L		11/23/22 15:21	12/04/22 19:50	1
DONA	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
9Cl-PF3ONS	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
11Cl-PF3OUdS	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
4:2 Fluorotelomer sulfonic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		11/23/22 15:21	12/04/22 19:50	1
6:2 Fluorotelomer sulfonic acid	<4.0		4.0		ng/L		11/23/22 15:21	12/04/22 19:50	1
8:2 Fluorotelomer sulfonic acid	<2.4		2.4		ng/L		11/23/22 15:21	12/04/22 19:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	106		10 - 200	11/23/22 15:21	12/04/22 19:50	1
M2-8:2 FTS	100		33 - 200	11/23/22 15:21	12/04/22 19:50	1
M2-6:2 FTS	93		17 - 200	11/23/22 15:21	12/04/22 19:50	1

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

Job ID: 410-105580-1

Client Sample ID: FB-111122
Date Collected: 11/11/22 09:30
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-19
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	100		24 - 179	11/23/22 15:21	12/04/22 19:50	1
13C4 PFHpA	102		31 - 182	11/23/22 15:21	12/04/22 19:50	1
13C8 PFOA	94		48 - 162	11/23/22 15:21	12/04/22 19:50	1
13C9 PFNA	96		51 - 167	11/23/22 15:21	12/04/22 19:50	1
13C6 PFDA	90		49 - 163	11/23/22 15:21	12/04/22 19:50	1
13C7 PFUnA	89		34 - 174	11/23/22 15:21	12/04/22 19:50	1
13C2-PFDoDA	85		17 - 176	11/23/22 15:21	12/04/22 19:50	1
13C2 PFTeDA	91		10 - 179	11/23/22 15:21	12/04/22 19:50	1
13C3 PFBS	88		16 - 200	11/23/22 15:21	12/04/22 19:50	1
13C3 PFHxS	99		28 - 188	11/23/22 15:21	12/04/22 19:50	1
13C8 PFOS	98		51 - 159	11/23/22 15:21	12/04/22 19:50	1
d3-NMeFOSAA	93		31 - 174	11/23/22 15:21	12/04/22 19:50	1
d5-NEtFOSAA	94		29 - 195	11/23/22 15:21	12/04/22 19:50	1
13C8 FOSA	84		10 - 168	11/23/22 15:21	12/04/22 19:50	1
13C4 PFBA	93		42 - 165	11/23/22 15:21	12/04/22 19:50	1
13C5 PFPeA	88		38 - 187	11/23/22 15:21	12/04/22 19:50	1
d7-N-MeFOSE-M	65		10 - 178	11/23/22 15:21	12/04/22 19:50	1
d3-NMePFOSA	48		10 - 155	11/23/22 15:21	12/04/22 19:50	1
d9-N-EtFOSE-M	66		10 - 177	11/23/22 15:21	12/04/22 19:50	1
d5-NEtPFOSA	56		10 - 159	11/23/22 15:21	12/04/22 19:50	1
13C3 HFPO-DA	93		17 - 185	11/23/22 15:21	12/04/22 19:50	1

Isotope Dilution Summary

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

Job ID: 410-105580-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (33-200)	M262FTS (17-200)	13C5PHA (24-179)	C4PFHA (31-182)	C8PFOA (48-162)	C9PFNA (51-167)	C6PFDA (49-163)
410-105580-1	RW6-72-GW-31	125	92	99	104	103	101	101	94
410-105580-2	RW6-72-GW-31 DUP	154	96	115	108	106	106	109	98
410-105580-3	RW6-72-GW-81	148 cn	87 cn	110 cn	102 cn	103 cn	95 cn	96 cn	83 cn
410-105580-4	RW15-27-GW-81	201 *5+ cn	111 cn	153 cn	99 cn	98 cn	98 cn	108 cn	95 cn
410-105580-5	EB-110722	95	99	98	106	104	101	99	91
410-105580-6	SL-21-GW-51	164 cn	74 cn	115 cn	83 cn	86 cn	89 cn	90 cn	72 cn
410-105580-6 - DL	SL-21-GW-51								
410-105580-7	PL-02-GW-56	131 cn	96 cn	101 cn	96 cn	100 cn	92 cn	94 cn	87 cn
410-105580-8	PL-01-GW-56	140 cn	81 cn	100 cn	96 cn	96 cn	93 cn	92 cn	80 cn
410-105580-9	RW6-69-GW-91	161 cn	93 cn	119 cn	78 cn	58 cn	79 cn	85 cn	73 cn
410-105580-9 - DL	RW6-69-GW-91								
410-105580-10	RW15-32-GW-51	158	104	129	114	126	121	113	101
410-105580-11	RW15-29-GW-91	227 *5+ cn	114 cn	163 cn	98 cn	113 cn	108 cn	120 cn	102 cn
410-105580-12	RW15-30-GW-46	169	90	125	65	74	98	95	81
410-105580-12 - DL	RW15-30-GW-46				91				
410-105580-13	EB-110922	112	110	110	116	122	116	112	103
410-105580-14	RW15-31-GW-46	195	115	146	103	119	116	114	105
410-105580-15	RW15-06-GW-91	111 cn	127 cn	113 cn	95 cn	102 cn	105 cn	115 cn	113 cn
410-105580-16	EB-111022	111	104	127	98	101	99	109	111
410-105580-17	RW15-28-GW-46	131	95	116	103	99	92	93	84
410-105580-18	RW15-28-GW-96	126 cn	109 cn	117 cn	94 cn	99 cn	98 cn	98 cn	97 cn
410-105580-19	FB-111122	106	100	93	100	102	94	96	90
LCS 410-319444/2-A	Lab Control Sample	92	89	102	90	97	92	102	91
LCS 410-320337/2-A	Lab Control Sample	104	108	110	97	100	100	107	105
LCS 410-320377/2-A	Lab Control Sample	117	97	120	115	109	114	110	107
LCS 410-320738/2-A	Lab Control Sample	99	92	95	93	94	90	98	86
LCSD 410-319444/3-A	Lab Control Sample Dup	146	137	140	145	141	136	139	125
LCSD 410-320337/3-A	Lab Control Sample Dup	103	118	112	95	96	101	105	99
LCSD 410-320377/3-A	Lab Control Sample Dup	114	113	104	109	106	111	105	106
LCSD 410-320738/3-A	Lab Control Sample Dup	104	99	96	99	97	94	100	86
MB 410-319444/1-A	Method Blank	102	97	106	106	105	101	107	94
MB 410-320337/1-A	Method Blank	111	123	113	102	106	103	110	108
MB 410-320377/1-A	Method Blank	107	120	104	104	112	110	120	115
MB 410-320738/1-A	Method Blank	121	111	112	112	107	103	108	100

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-105580-1	RW6-72-GW-31	100	93	100	123	103	103	92	104
410-105580-2	RW6-72-GW-31 DUP	98	94	101	134	110	105	96	102
410-105580-3	RW6-72-GW-81	78 cn	71 cn	79 cn	105 cn	104 cn	91 cn	85 cn	86 cn
410-105580-4	RW15-27-GW-81	97 cn	88 cn	94 cn	106 cn	106 cn	105 cn	99 cn	114 cn
410-105580-5	EB-110722	91	90	96	95	102	103	99	99
410-105580-6	SL-21-GW-51	69 cn	64 cn	76 cn	121 cn	92 cn	86 cn	69 cn	76 cn
410-105580-6 - DL	SL-21-GW-51						81 cn		
410-105580-7	PL-02-GW-56	89 cn	82 cn	93 cn	102 cn	105 cn	97 cn	94 cn	100 cn
410-105580-8	PL-01-GW-56	82 cn	75 cn	85 cn	105 cn	99 cn	91 cn	86 cn	90 cn
410-105580-9	RW6-69-GW-91	71 cn	67 cn	77 cn	96 cn	67 cn	83 cn	73 cn	80 cn
410-105580-9 - DL	RW6-69-GW-91					89 cn	82 cn		

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-105580-10	RW15-32-GW-51	83	82	80	131	120	111	85	88
410-105580-11	RW15-29-GW-91	100 cn	95 cn	86 cn	149 cn	119 cn	123 cn	102 cn	108 cn
410-105580-12	RW15-30-GW-46	79	70	69	141	74	87	65	64
410-105580-12 - DL	RW15-30-GW-46					100	90		
410-105580-13	EB-110922	94	92	85	109	119	119	91	95
410-105580-14	RW15-31-GW-46	93	92	83	167	124	112	97	97
410-105580-15	RW15-06-GW-91	115 cn	120 cn	129 cn	118 cn	104 cn	118 cn	136 cn	146 cn
410-105580-16	EB-111022	100	107	128	113	105	108	133	126
410-105580-17	RW15-28-GW-46	82	87	98	110	107	95	114	95
410-105580-18	RW15-28-GW-96	96 cn	108 cn	118 cn	113 cn	105 cn	104 cn	126 cn	130 cn
410-105580-19	FB-111122	89	85	91	88	99	98	93	94
LCS 410-319444/2-A	Lab Control Sample	85	80	86	93	97	100	100	91
LCS 410-320337/2-A	Lab Control Sample	102	104	122	112	105	113	135	119
LCS 410-320377/2-A	Lab Control Sample	100	100	84	111	112	114	104	106
LCS 410-320738/2-A	Lab Control Sample	83	81	85	85	94	99	87	86
LCSD 410-319444/3-A	Lab Control Sample Dup	128	124	133	126	136	139	139	144
LCSD 410-320337/3-A	Lab Control Sample Dup	111	114	109	111	101	111	128	124
LCSD 410-320377/3-A	Lab Control Sample Dup	102	94	85	113	104	108	102	107
LCSD 410-320738/3-A	Lab Control Sample Dup	90	84	90	85	96	102	91	91
MB 410-319444/1-A	Method Blank	93	90	95	94	103	110	105	105
MB 410-320337/1-A	Method Blank	111	99	118	118	113	115	138	128
MB 410-320377/1-A	Method Blank	107	99	87	115	113	124	112	109
MB 410-320738/1-A	Method Blank	102	97	98	101	108	109	104	109

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
410-105580-1	RW6-72-GW-31	87	101	112	84	79	85	84	101
410-105580-2	RW6-72-GW-31 DUP	92	111	127	84	75	88	79	104
410-105580-3	RW6-72-GW-81	76 cn	95 cn	100 cn	59 cn	58 cn	59 cn	59 cn	91 cn
410-105580-4	RW15-27-GW-81	87 cn	100 cn	100 cn	69 cn	65 cn	73 cn	65 cn	95 cn
410-105580-5	EB-110722	87	97	95	77	77	79	80	100
410-105580-6	SL-21-GW-51	60 cn	93 cn	100 cn	55 cn	52 cn	56 cn	56 cn	81 cn
410-105580-6 - DL	SL-21-GW-51								
410-105580-7	PL-02-GW-56	79 cn	92 cn	94 cn	67 cn	62 cn	68 cn	64 cn	102 cn
410-105580-8	PL-01-GW-56	68 cn	92 cn	96 cn	59 cn	40 cn	59 cn	43 cn	82 cn
410-105580-9	RW6-69-GW-91	71 cn	87 cn	82 cn	52 cn	47 cn	51 cn	49 cn	81 cn
410-105580-9 - DL	RW6-69-GW-91								
410-105580-10	RW15-32-GW-51	90	118	122	76	62	73	63	105
410-105580-11	RW15-29-GW-91	102 cn	108 cn	113 cn	82 cn	62 cn	79 cn	66 cn	89 cn
410-105580-12	RW15-30-GW-46	84	98	72	73	62	74	68	80
410-105580-12 - DL	RW15-30-GW-46		103	92					
410-105580-13	EB-110922	94	107	108	80	67	80	82	104
410-105580-14	RW15-31-GW-46	96	121	127	76	68	75	69	92
410-105580-15	RW15-06-GW-91	111 cn	111 cn	112 cn	112 cn	88 cn	103 cn	86 cn	91 cn
410-105580-16	EB-111022	100	105	102	100	84	110	85	85
410-105580-17	RW15-28-GW-46	49	101	106	34	9 *5- cn	35	10	88
410-105580-18	RW15-28-GW-96	111 cn	109 cn	106 cn	50 cn	72 cn	53 cn	71 cn	83 cn
410-105580-19	FB-111122	84	93	88	65	48	66	56	93
LCS 410-319444/2-A	Lab Control Sample	85	95	95	73	65	73	71	83
LCS 410-320337/2-A	Lab Control Sample	96	109	108	96	75	101	81	88

Isotope Dilution Summary

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

Job ID: 410-105580-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
LCS 410-320377/2-A	Lab Control Sample	97	110	116	97	69	92	80	100
LCS 410-320738/2-A	Lab Control Sample	81	90	86	67	54	67	63	92
LCSD 410-319444/3-A	Lab Control Sample Dup	121	132	130	111	105	115	113	135
LCSD 410-320337/3-A	Lab Control Sample Dup	104	107	104	103	81	100	82	89
LCSD 410-320377/3-A	Lab Control Sample Dup	102	110	112	92	71	89	84	99
LCSD 410-320738/3-A	Lab Control Sample Dup	83	93	90	62	54	61	57	109
MB 410-319444/1-A	Method Blank	87	99	95	82	73	80	79	97
MB 410-320337/1-A	Method Blank	99	110	117	84	67	78	76	89
MB 410-320377/1-A	Method Blank	103	114	115	90	69	86	75	98
MB 410-320738/1-A	Method Blank	93	104	97	83	57	82	64	103

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 410-319444/1-A
Matrix: Water
Analysis Batch: 323098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorononanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
NEtFOSAA	<3.0		3.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
NMeFOSAA	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
10:2 FTS	<5.0		5.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
NMeFOSE	<3.0		3.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
NMeFOSA	<3.0		3.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
NEtFOSE	<3.0		3.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
NEtFOSA	<5.0		5.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
HFPODA	<3.0		3.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
DONA	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
9Cl-PF3ONS	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		11/20/22 12:47	12/03/22 00:13	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		11/20/22 12:47	12/03/22 00:13	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*102*		*10 - 200*	*11/20/22 12:47*	*12/03/22 00:13*	*1*
M2-8:2 FTS	*97*		*33 - 200*	*11/20/22 12:47*	*12/03/22 00:13*	*1*
M2-6:2 FTS	*106*		*17 - 200*	*11/20/22 12:47*	*12/03/22 00:13*	*1*
13C5 PFHxA	*106*		*24 - 179*	*11/20/22 12:47*	*12/03/22 00:13*	*1*
13C4 PFHpA	*105*		*31 - 182*	*11/20/22 12:47*	*12/03/22 00:13*	*1*
13C8 PFOA	*101*		*48 - 162*	*11/20/22 12:47*	*12/03/22 00:13*	*1*
13C9 PFNA	*107*		*51 - 167*	*11/20/22 12:47*	*12/03/22 00:13*	*1*
13C6 PFDA	*94*		*49 - 163*	*11/20/22 12:47*	*12/03/22 00:13*	*1*
13C7 PFUnA	*93*		*34 - 174*	*11/20/22 12:47*	*12/03/22 00:13*	*1*
13C2-PFDoDA	*90*		*17 - 176*	*11/20/22 12:47*	*12/03/22 00:13*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-319444/1-A
Matrix: Water
Analysis Batch: 323098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319444

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	95		10 - 179	11/20/22 12:47	12/03/22 00:13	1
13C3 PFBS	94		16 - 200	11/20/22 12:47	12/03/22 00:13	1
13C3 PFHxS	103		28 - 188	11/20/22 12:47	12/03/22 00:13	1
13C8 PFOS	110		51 - 159	11/20/22 12:47	12/03/22 00:13	1
d3-NMeFOSAA	105		31 - 174	11/20/22 12:47	12/03/22 00:13	1
d5-NEtFOSAA	105		29 - 195	11/20/22 12:47	12/03/22 00:13	1
13C8 FOSA	87		10 - 168	11/20/22 12:47	12/03/22 00:13	1
13C4 PFBA	99		42 - 165	11/20/22 12:47	12/03/22 00:13	1
13C5 PFPeA	95		38 - 187	11/20/22 12:47	12/03/22 00:13	1
d7-N-MeFOSE-M	82		10 - 178	11/20/22 12:47	12/03/22 00:13	1
d3-NMePFOSA	73		10 - 155	11/20/22 12:47	12/03/22 00:13	1
d9-N-EtFOSE-M	80		10 - 177	11/20/22 12:47	12/03/22 00:13	1
d5-NEtPFOSA	79		10 - 159	11/20/22 12:47	12/03/22 00:13	1
13C3 HFPO-DA	97		17 - 185	11/20/22 12:47	12/03/22 00:13	1

Lab Sample ID: LCS 410-319444/2-A
Matrix: Water
Analysis Batch: 323098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	25.7		ng/L		100	58 - 139
Perfluoroheptanoic acid	25.6	26.8		ng/L		105	59 - 145
Perfluorooctanoic acid	25.6	26.9		ng/L		105	51 - 145
Perfluorononanoic acid	25.6	25.9		ng/L		101	61 - 139
Perfluorodecanoic acid	25.6	27.7		ng/L		108	56 - 138
Perfluorotridecanoic acid	25.6	26.1		ng/L		102	58 - 146
Perfluorotetradecanoic acid	25.6	27.1		ng/L		106	62 - 139
Perfluorobutanesulfonic acid	22.7	24.1		ng/L		106	53 - 138
Perfluorohexanesulfonic acid	23.3	23.7		ng/L		101	58 - 134
Perfluorooctanesulfonic acid	23.7	24.8		ng/L		105	45 - 150
NEtFOSAA	25.6	27.0		ng/L		105	55 - 134
NMeFOSAA	25.6	25.3		ng/L		99	59 - 140
10:2 FTS	24.7	22.2		ng/L		90	50 - 146
Perfluoropentanesulfonic acid	24.0	25.0		ng/L		104	55 - 140
Perfluoroheptanesulfonic acid	24.4	23.4		ng/L		96	56 - 140
Perfluorononanesulfonic acid	24.6	24.4		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	24.7	22.3		ng/L		91	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.9		ng/L		88	48 - 138
Perfluorooctanesulfonamide	25.6	27.4		ng/L		107	43 - 167
Perfluorohexadecanoic acid	25.6	23.0		ng/L		90	41 - 158
Perfluorooctadecanoic acid	25.6	24.8		ng/L		97	29 - 172
Perfluorobutanoic acid	25.6	23.5		ng/L		92	59 - 136
Perfluoropentanoic acid	25.6	26.1		ng/L		102	57 - 141
NMeFOSE	25.6	26.7		ng/L		104	55 - 144
NMeFOSA	25.6	27.8		ng/L		108	64 - 143
NEtFOSE	25.6	26.3		ng/L		103	60 - 136
NEtFOSA	25.6	25.5		ng/L		100	61 - 134
HFPODA	25.6	26.9		ng/L		105	50 - 135

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-319444/2-A
Matrix: Water
Analysis Batch: 323098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	24.2	22.9		ng/L		94	55 - 143
9Cl-PF3ONS	23.8	24.5		ng/L		103	59 - 135
11Cl-PF3OUdS	23.8	22.6		ng/L		95	53 - 139
Perfluorododecanoic acid	25.6	26.5		ng/L		104	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	25.2		ng/L		105	55 - 139
Perfluoroundecanoic acid	25.6	25.6		ng/L		100	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	24.7		ng/L		102	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	24.7		ng/L		101	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*92*		*10 - 200*
M2-8:2 FTS	*89*		*33 - 200*
M2-6:2 FTS	*102*		*17 - 200*
13C5 PFHxA	*90*		*24 - 179*
13C4 PFHpA	*97*		*31 - 182*
13C8 PFOA	*92*		*48 - 162*
13C9 PFNA	*102*		*51 - 167*
13C6 PFDA	*91*		*49 - 163*
13C7 PFUnA	*85*		*34 - 174*
13C2-PFDoDA	*80*		*17 - 176*
13C2 PFTeDA	*86*		*10 - 179*
13C3 PFBS	*93*		*16 - 200*
13C3 PFHxS	*97*		*28 - 188*
13C8 PFOS	*100*		*51 - 159*
d3-NMeFOSAA	*100*		*31 - 174*
d5-NEtFOSAA	*91*		*29 - 195*
13C8 FOSA	*85*		*10 - 168*
13C4 PFBA	*95*		*42 - 165*
13C5 PFPeA	*95*		*38 - 187*
d7-N-MeFOSE-M	*73*		*10 - 178*
d3-NMePFOSA	*65*		*10 - 155*
d9-N-EtFOSE-M	*73*		*10 - 177*
d5-NEtPFOSA	*71*		*10 - 159*
13C3 HFPO-DA	*83*		*17 - 185*

Lab Sample ID: LCSD 410-319444/3-A
Matrix: Water
Analysis Batch: 323098

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 319444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.6	17.1	*1	ng/L		67	58 - 139	40	30
Perfluoroheptanoic acid	25.6	19.1	*1	ng/L		75	59 - 145	34	30
Perfluorooctanoic acid	25.6	19.4	*1	ng/L		76	51 - 145	32	30
Perfluorononanoic acid	25.6	19.0	*1	ng/L		74	61 - 139	31	30
Perfluorodecanoic acid	25.6	20.4		ng/L		80	56 - 138	30	30
Perfluorotridecanoic acid	25.6	21.1		ng/L		82	58 - 146	21	30
Perfluorotetradecanoic acid	25.6	19.8	*1	ng/L		77	62 - 139	31	30
Perfluorobutanesulfonic acid	22.7	17.9		ng/L		79	53 - 138	30	30
Perfluorohexanesulfonic acid	23.3	17.3	*1	ng/L		74	58 - 134	31	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-319444/3-A
Matrix: Water
Analysis Batch: 323098

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 319444

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid			23.7	17.6	*1	ng/L		74	45 - 150	34	30
NEtFOSAA			25.6	18.2	*1	ng/L		71	55 - 134	39	30
NMeFOSAA			25.6	18.9		ng/L		74	59 - 140	29	30
10:2 FTS			24.7	17.7		ng/L		72	50 - 146	23	30
Perfluoropentanesulfonic acid			24.0	18.4		ng/L		77	55 - 140	30	30
Perfluoroheptanesulfonic acid			24.4	17.0	*1	ng/L		70	56 - 140	32	30
Perfluorononanesulfonic acid			24.6	17.9	*1	ng/L		73	59 - 136	31	30
Perfluorodecanesulfonic acid			24.7	18.0		ng/L		73	55 - 137	22	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	18.0		ng/L		72	48 - 138	20	30
Perfluorooctanesulfonamide			25.6	19.6	*1	ng/L		76	43 - 167	33	30
Perfluorohexadecanoic acid			25.6	16.8	*1	ng/L		66	41 - 158	31	30
Perfluorooctadecanoic acid			25.6	17.9	*1	ng/L		70	29 - 172	32	30
Perfluorobutanoic acid			25.6	17.2	*1	ng/L		67	59 - 136	31	30
Perfluoropentanoic acid			25.6	19.0	*1	ng/L		74	57 - 141	31	30
NMeFOSE			25.6	18.9	*1	ng/L		74	55 - 144	34	30
NMeFOSA			25.6	19.8	*1	ng/L		77	64 - 143	33	30
NEtFOSE			25.6	18.5	*1	ng/L		72	60 - 136	35	30
NEtFOSA			25.6	18.5	*1	ng/L		72	61 - 134	32	30
HFPODA			25.6	17.2	*1	ng/L		67	50 - 135	44	30
DONA			24.2	16.3	*1	ng/L		68	55 - 143	33	30
9Cl-PF3ONS			23.8	18.0		ng/L		76	59 - 135	30	30
11Cl-PF3OUdS			23.8	17.9		ng/L		75	53 - 139	23	30
Perfluorododecanoic acid			25.6	19.6		ng/L		77	59 - 143	30	30
4:2 Fluorotelomer sulfonic acid			23.9	18.4	*1	ng/L		77	55 - 139	31	30
Perfluoroundecanoic acid			25.6	19.5		ng/L		76	60 - 141	27	30
6:2 Fluorotelomer sulfonic acid			24.3	18.5		ng/L		76	28 - 173	29	30
8:2 Fluorotelomer sulfonic acid			24.5	17.8	*1	ng/L		73	55 - 138	32	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*146*		*10 - 200*
M2-8:2 FTS	*137*		*33 - 200*
M2-6:2 FTS	*140*		*17 - 200*
13C5 PFHxA	*145*		*24 - 179*
13C4 PFHpA	*141*		*31 - 182*
13C8 PFOA	*136*		*48 - 162*
13C9 PFNA	*139*		*51 - 167*
13C6 PFDA	*125*		*49 - 163*
13C7 PFUnA	*128*		*34 - 174*
13C2-PFDoDA	*124*		*17 - 176*
13C2 PFTeDA	*133*		*10 - 179*
13C3 PFBS	*126*		*16 - 200*
13C3 PFHxS	*136*		*28 - 188*
13C8 PFOS	*139*		*51 - 159*
d3-NMeFOSAA	*139*		*31 - 174*
d5-NEtFOSAA	*144*		*29 - 195*
13C8 FOSA	*121*		*10 - 168*
13C4 PFBA	*132*		*42 - 165*
13C5 PFPeA	*130*		*38 - 187*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-319444/3-A
Matrix: Water
Analysis Batch: 323098

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 319444

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d7-N-MeFOSE-M	*111*		*10 - 178*
d3-NMePFOSA	*105*		*10 - 155*
d9-N-EtFOSE-M	*115*		*10 - 177*
d5-NEtPFOSA	*113*		*10 - 159*
13C3 HFPO-DA	*135*		*17 - 185*

Lab Sample ID: MB 410-320337/1-A
Matrix: Water
Analysis Batch: 321611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorononanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
NEtFOSAA	<3.0		3.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
NMeFOSAA	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
10:2 FTS	<5.0		5.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
NMeFOSE	<3.0		3.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
NMeFOSA	<3.0		3.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
NEtFOSE	<3.0		3.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
NEtFOSA	<5.0		5.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
HFPODA	<3.0		3.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
DONA	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
9Cl-PF3ONS	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		11/22/22 15:30	11/29/22 20:15	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		11/22/22 15:30	11/29/22 20:15	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	111		10 - 200	11/22/22 15:30	11/29/22 20:15	1
M2-8:2 FTS	123		33 - 200	11/22/22 15:30	11/29/22 20:15	1
M2-6:2 FTS	113		17 - 200	11/22/22 15:30	11/29/22 20:15	1
13C5 PFHxA	102		24 - 179	11/22/22 15:30	11/29/22 20:15	1
13C4 PFHpA	106		31 - 182	11/22/22 15:30	11/29/22 20:15	1
13C8 PFOA	103		48 - 162	11/22/22 15:30	11/29/22 20:15	1
13C9 PFNA	110		51 - 167	11/22/22 15:30	11/29/22 20:15	1
13C6 PFDA	108		49 - 163	11/22/22 15:30	11/29/22 20:15	1
13C7 PFUnA	111		34 - 174	11/22/22 15:30	11/29/22 20:15	1
13C2-PFDoDA	99		17 - 176	11/22/22 15:30	11/29/22 20:15	1
13C2 PFTeDA	118		10 - 179	11/22/22 15:30	11/29/22 20:15	1
13C3 PFBS	118		16 - 200	11/22/22 15:30	11/29/22 20:15	1
13C3 PFHxS	113		28 - 188	11/22/22 15:30	11/29/22 20:15	1
13C8 PFOS	115		51 - 159	11/22/22 15:30	11/29/22 20:15	1
d3-NMeFOSAA	138		31 - 174	11/22/22 15:30	11/29/22 20:15	1
d5-NEtFOSAA	128		29 - 195	11/22/22 15:30	11/29/22 20:15	1
13C8 FOSA	99		10 - 168	11/22/22 15:30	11/29/22 20:15	1
13C4 PFBA	110		42 - 165	11/22/22 15:30	11/29/22 20:15	1
13C5 PFPeA	117		38 - 187	11/22/22 15:30	11/29/22 20:15	1
d7-N-MeFOSE-M	84		10 - 178	11/22/22 15:30	11/29/22 20:15	1
d3-NMePFOSA	67		10 - 155	11/22/22 15:30	11/29/22 20:15	1
d9-N-EtFOSE-M	78		10 - 177	11/22/22 15:30	11/29/22 20:15	1
d5-NEtPFOSA	76		10 - 159	11/22/22 15:30	11/29/22 20:15	1
13C3 HFPO-DA	89		17 - 185	11/22/22 15:30	11/29/22 20:15	1

Lab Sample ID: LCS 410-320337/2-A
Matrix: Water
Analysis Batch: 321611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	24.0		ng/L		94	58 - 139
Perfluoroheptanoic acid	25.6	22.5		ng/L		88	59 - 145
Perfluorooctanoic acid	25.6	25.2		ng/L		98	51 - 145
Perfluorononanoic acid	25.6	22.7		ng/L		89	61 - 139
Perfluorodecanoic acid	25.6	25.1		ng/L		98	56 - 138
Perfluorotridecanoic acid	25.6	25.1		ng/L		98	58 - 146
Perfluorotetradecanoic acid	25.6	24.3		ng/L		95	62 - 139
Perfluorobutanesulfonic acid	22.7	22.0		ng/L		97	53 - 138
Perfluorohexanesulfonic acid	23.3	20.6		ng/L		88	58 - 134
Perfluorooctanesulfonic acid	23.7	22.3		ng/L		94	45 - 150
NEtFOSAA	25.6	23.0		ng/L		90	55 - 134
NMeFOSAA	25.6	21.3		ng/L		83	59 - 140
10:2 FTS	24.7	27.2		ng/L		110	50 - 146
Perfluoropentanesulfonic acid	24.0	23.0		ng/L		96	55 - 140
Perfluoroheptanesulfonic acid	24.4	22.2		ng/L		91	56 - 140
Perfluorononanesulfonic acid	24.6	21.5		ng/L		87	59 - 136
Perfluorodecanesulfonic acid	24.7	20.4		ng/L		83	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	22.0		ng/L		89	48 - 138
Perfluorooctanesulfonamide	25.6	24.7		ng/L		96	43 - 167
Perfluorohexadecanoic acid	25.6	18.9		ng/L		74	41 - 158
Perfluorooctadecanoic acid	25.6	21.5		ng/L		84	29 - 172

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320337/2-A
Matrix: Water
Analysis Batch: 321611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	25.6	21.2		ng/L		83	59 - 136
Perfluoropentanoic acid	25.6	23.4		ng/L		91	57 - 141
NMeFOSE	25.6	22.7		ng/L		89	55 - 144
NMeFOSA	25.6	25.4		ng/L		99	64 - 143
NEtFOSE	25.6	21.2		ng/L		83	60 - 136
NEtFOSA	25.6	22.9		ng/L		89	61 - 134
HFPODA	25.6	23.2		ng/L		91	50 - 135
DONA	24.2	23.9		ng/L		99	55 - 143
9Cl-PF3ONS	23.8	20.3		ng/L		85	59 - 135
11Cl-PF3OUdS	23.8	21.9		ng/L		92	53 - 139
Perfluorododecanoic acid	25.6	22.0		ng/L		86	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	24.3		ng/L		102	55 - 139
Perfluoroundecanoic acid	25.6	23.5		ng/L		92	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	21.7		ng/L		90	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	19.3		ng/L		79	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*104*		*10 - 200*
M2-8:2 FTS	*108*		*33 - 200*
M2-6:2 FTS	*110*		*17 - 200*
13C5 PFHxA	*97*		*24 - 179*
13C4 PFHpA	*100*		*31 - 182*
13C8 PFOA	*100*		*48 - 162*
13C9 PFNA	*107*		*51 - 167*
13C6 PFDA	*105*		*49 - 163*
13C7 PFUnA	*102*		*34 - 174*
13C2-PFDoDA	*104*		*17 - 176*
13C2 PFTeDA	*122*		*10 - 179*
13C3 PFBS	*112*		*16 - 200*
13C3 PFHxS	*105*		*28 - 188*
13C8 PFOS	*113*		*51 - 159*
d3-NMeFOSAA	*135*		*31 - 174*
d5-NEtFOSAA	*119*		*29 - 195*
13C8 FOSA	*96*		*10 - 168*
13C4 PFBA	*109*		*42 - 165*
13C5 PFPeA	*108*		*38 - 187*
d7-N-MeFOSE-M	*96*		*10 - 178*
d3-NMePFOSA	*75*		*10 - 155*
d9-N-EtFOSE-M	*101*		*10 - 177*
d5-NEtPFOSA	*81*		*10 - 159*
13C3 HFPO-DA	*88*		*17 - 185*

Lab Sample ID: LCSD 410-320337/3-A
Matrix: Water
Analysis Batch: 321611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320337

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.6	24.5		ng/L		96	58 - 139	2	30
Perfluoroheptanoic acid	25.6	23.7		ng/L		93	59 - 145	5	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-320337/3-A
Matrix: Water
Analysis Batch: 321611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320337

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid			25.6	23.2		ng/L		91	51 - 145	8	30
Perfluorononanoic acid			25.6	23.9		ng/L		93	61 - 139	5	30
Perfluorodecanoic acid			25.6	26.8		ng/L		105	56 - 138	7	30
Perfluorotridecanoic acid			25.6	24.2		ng/L		95	58 - 146	4	30
Perfluorotetradecanoic acid			25.6	28.5		ng/L		111	62 - 139	16	30
Perfluorobutanesulfonic acid			22.7	22.3		ng/L		98	53 - 138	2	30
Perfluorohexanesulfonic acid			23.3	21.2		ng/L		91	58 - 134	3	30
Perfluorooctanesulfonic acid			23.7	22.8		ng/L		96	45 - 150	3	30
NEtFOSAA			25.6	24.4		ng/L		95	55 - 134	6	30
NMeFOSAA			25.6	24.8		ng/L		97	59 - 140	15	30
10:2 FTS			24.7	27.3		ng/L		110	50 - 146	0	30
Perfluoropentanesulfonic acid			24.0	23.6		ng/L		98	55 - 140	2	30
Perfluoroheptanesulfonic acid			24.4	21.2		ng/L		87	56 - 140	5	30
Perfluorononanesulfonic acid			24.6	21.0		ng/L		85	59 - 136	2	30
Perfluorodecanesulfonic acid			24.7	21.5		ng/L		87	55 - 137	5	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	22.0		ng/L		89	48 - 138	0	30
Perfluorooctanesulfonamide			25.6	23.3		ng/L		91	43 - 167	6	30
Perfluorohexadecanoic acid			25.6	22.3		ng/L		87	41 - 158	16	30
Perfluorooctadecanoic acid			25.6	23.2		ng/L		91	29 - 172	8	30
Perfluorobutanoic acid			25.6	20.8		ng/L		81	59 - 136	2	30
Perfluoropentanoic acid			25.6	24.9		ng/L		97	57 - 141	6	30
NMeFOSE			25.6	22.2		ng/L		87	55 - 144	2	30
NMeFOSA			25.6	24.3		ng/L		95	64 - 143	4	30
NEtFOSE			25.6	24.2		ng/L		94	60 - 136	13	30
NEtFOSA			25.6	24.5		ng/L		96	61 - 134	7	30
HFPODA			25.6	22.6		ng/L		88	50 - 135	3	30
DONA			24.2	24.4		ng/L		101	55 - 143	2	30
9Cl-PF3ONS			23.8	21.5		ng/L		90	59 - 135	6	30
11Cl-PF3OUdS			23.8	21.4		ng/L		90	53 - 139	2	30
Perfluorododecanoic acid			25.6	23.0		ng/L		90	59 - 143	4	30
4:2 Fluorotelomer sulfonic acid			23.9	21.5		ng/L		90	55 - 139	12	30
Perfluoroundecanoic acid			25.6	23.3		ng/L		91	60 - 141	1	30
6:2 Fluorotelomer sulfonic acid			24.3	20.9		ng/L		86	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid			24.5	19.1		ng/L		78	55 - 138	1	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*103*		*10 - 200*
M2-8:2 FTS	*118*		*33 - 200*
M2-6:2 FTS	*112*		*17 - 200*
13C5 PFHxA	*95*		*24 - 179*
13C4 PFHpA	*96*		*31 - 182*
13C8 PFOA	*101*		*48 - 162*
13C9 PFNA	*105*		*51 - 167*
13C6 PFDA	*99*		*49 - 163*
13C7 PFUnA	*111*		*34 - 174*
13C2-PFDoDA	*114*		*17 - 176*
13C2 PFTeDA	*109*		*10 - 179*
13C3 PFBS	*111*		*16 - 200*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-320337/3-A
Matrix: Water
Analysis Batch: 321611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320337

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 PFHxS	*101*		*28 - 188*
13C8 PFOS	*111*		*51 - 159*
d3-NMeFOSAA	*128*		*31 - 174*
d5-NEtFOSAA	*124*		*29 - 195*
13C8 FOSA	*104*		*10 - 168*
13C4 PFBA	*107*		*42 - 165*
13C5 PFPeA	*104*		*38 - 187*
d7-N-MeFOSE-M	*103*		*10 - 178*
d3-NMePFOSA	*81*		*10 - 155*
d9-N-EtFOSE-M	*100*		*10 - 177*
d5-NEtPFOSA	*82*		*10 - 159*
13C3 HFPO-DA	*89*		*17 - 185*

Lab Sample ID: MB 410-320377/1-A
Matrix: Water
Analysis Batch: 321161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorononanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
NEtFOSAA	<3.0		3.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
NMeFOSAA	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
10:2 FTS	<5.0		5.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
NMeFOSE	<3.0		3.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
NMeFOSA	<3.0		3.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
NEtFOSE	<3.0		3.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
NEtFOSA	<5.0		5.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
HFPODA	<3.0		3.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
DONA	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
9Cl-PF3ONS	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-320377/1-A
Matrix: Water
Analysis Batch: 321161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		11/22/22 16:40	11/28/22 22:39	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		11/22/22 16:40	11/28/22 22:39	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*107*		*10 - 200*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
M2-8:2 FTS	*120*		*33 - 200*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
M2-6:2 FTS	*104*		*17 - 200*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C5 PFHxA	*104*		*24 - 179*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C4 PFHpA	*112*		*31 - 182*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C8 PFOA	*110*		*48 - 162*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C9 PFNA	*120*		*51 - 167*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C6 PFDA	*115*		*49 - 163*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C7 PFUnA	*107*		*34 - 174*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C2-PFDoDA	*99*		*17 - 176*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C2 PFTeDA	*87*		*10 - 179*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C3 PFBS	*115*		*16 - 200*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C3 PFHxS	*113*		*28 - 188*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C8 PFOS	*124*		*51 - 159*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
d3-NMeFOSAA	*112*		*31 - 174*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
d5-NEtFOSAA	*109*		*29 - 195*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C8 FOSA	*103*		*10 - 168*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C4 PFBA	*114*		*42 - 165*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C5 PFPeA	*115*		*38 - 187*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
d7-N-MeFOSE-M	*90*		*10 - 178*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
d3-NMePFOSA	*69*		*10 - 155*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
d9-N-EtFOSE-M	*86*		*10 - 177*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
d5-NEtPFOSA	*75*		*10 - 159*	*11/22/22 16:40*	*11/28/22 22:39*	*1*
13C3 HFPO-DA	*98*		*17 - 185*	*11/22/22 16:40*	*11/28/22 22:39*	*1*

Lab Sample ID: LCS 410-320377/2-A
Matrix: Water
Analysis Batch: 321161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	21.8		ng/L		85	58 - 139
Perfluoroheptanoic acid	25.6	23.6		ng/L		92	59 - 145
Perfluorooctanoic acid	25.6	21.7		ng/L		85	51 - 145
Perfluorononanoic acid	25.6	23.3		ng/L		91	61 - 139
Perfluorodecanoic acid	25.6	23.8		ng/L		93	56 - 138
Perfluorotridecanoic acid	25.6	20.3		ng/L		79	58 - 146
Perfluorotetradecanoic acid	25.6	22.4		ng/L		87	62 - 139
Perfluorobutanesulfonic acid	22.7	22.0		ng/L		97	53 - 138
Perfluorohexanesulfonic acid	23.3	20.0		ng/L		86	58 - 134
Perfluorooctanesulfonic acid	23.7	21.9		ng/L		92	45 - 150
NEtFOSAA	25.6	22.6		ng/L		88	55 - 134

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320377/2-A
Matrix: Water
Analysis Batch: 321161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.6	20.7		ng/L		81	59 - 140
10:2 FTS	24.7	17.4		ng/L		70	50 - 146
Perfluoropentanesulfonic acid	24.0	21.5		ng/L		89	55 - 140
Perfluoroheptanesulfonic acid	24.4	20.9		ng/L		86	56 - 140
Perfluorononanesulfonic acid	24.6	22.6		ng/L		92	59 - 136
Perfluorodecanesulfonic acid	24.7	20.8		ng/L		84	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	17.8		ng/L		72	48 - 138
Perfluorooctanesulfonamide	25.6	23.1		ng/L		90	43 - 167
Perfluorohexadecanoic acid	25.6	20.5		ng/L		80	41 - 158
Perfluorooctadecanoic acid	25.6	22.2		ng/L		87	29 - 172
Perfluorobutanoic acid	25.6	20.1		ng/L		79	59 - 136
Perfluoropentanoic acid	25.6	21.3		ng/L		83	57 - 141
NMeFOSE	25.6	21.7		ng/L		85	55 - 144
NMeFOSA	25.6	25.6		ng/L		100	64 - 143
NEtFOSE	25.6	23.2		ng/L		91	60 - 136
NEtFOSA	25.6	25.7		ng/L		100	61 - 134
HFPODA	25.6	22.1		ng/L		86	50 - 135
DONA	24.2	21.9		ng/L		90	55 - 143
9Cl-PF3ONS	23.8	21.1		ng/L		89	59 - 135
11Cl-PF3OUdS	23.8	20.1		ng/L		84	53 - 139
Perfluorododecanoic acid	25.6	22.7		ng/L		89	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	20.0		ng/L		83	55 - 139
Perfluoroundecanoic acid	25.6	25.8		ng/L		101	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	19.3		ng/L		80	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	23.3		ng/L		95	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*117*		*10 - 200*
M2-8:2 FTS	*97*		*33 - 200*
M2-6:2 FTS	*120*		*17 - 200*
13C5 PFHxA	*115*		*24 - 179*
13C4 PFHpA	*109*		*31 - 182*
13C8 PFOA	*114*		*48 - 162*
13C9 PFNA	*110*		*51 - 167*
13C6 PFDA	*107*		*49 - 163*
13C7 PFUnA	*100*		*34 - 174*
13C2-PFDoDA	*100*		*17 - 176*
13C2 PFTeDA	*84*		*10 - 179*
13C3 PFBS	*111*		*16 - 200*
13C3 PFHxS	*112*		*28 - 188*
13C8 PFOS	*114*		*51 - 159*
d3-NMeFOSAA	*104*		*31 - 174*
d5-NEtFOSAA	*106*		*29 - 195*
13C8 FOSA	*97*		*10 - 168*
13C4 PFBA	*110*		*42 - 165*
13C5 PFPeA	*116*		*38 - 187*
d7-N-MeFOSE-M	*97*		*10 - 178*
d3-NMePFOSA	*69*		*10 - 155*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320377/2-A
Matrix: Water
Analysis Batch: 321161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320377

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	92		10 - 177
d5-NEtPFOSA	80		10 - 159
13C3 HFPO-DA	100		17 - 185

Lab Sample ID: LCSD 410-320377/3-A
Matrix: Water
Analysis Batch: 321161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320377

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	23.8		ng/L		93	58 - 139	9	30
Perfluoroheptanoic acid			25.6	24.8		ng/L		97	59 - 145	5	30
Perfluorooctanoic acid			25.6	24.4		ng/L		95	51 - 145	12	30
Perfluorononanoic acid			25.6	26.9		ng/L		105	61 - 139	14	30
Perfluorodecanoic acid			25.6	26.6		ng/L		104	56 - 138	11	30
Perfluorotridecanoic acid			25.6	23.8		ng/L		93	58 - 146	16	30
Perfluorotetradecanoic acid			25.6	24.0		ng/L		94	62 - 139	7	30
Perfluorobutanesulfonic acid			22.7	24.3		ng/L		107	53 - 138	10	30
Perfluorohexanesulfonic acid			23.3	23.4		ng/L		100	58 - 134	15	30
Perfluorooctanesulfonic acid			23.7	23.6		ng/L		100	45 - 150	8	30
NEtFOSAA			25.6	23.7		ng/L		93	55 - 134	5	30
NMeFOSAA			25.6	25.5		ng/L		100	59 - 140	21	30
10:2 FTS			24.7	16.0		ng/L		65	50 - 146	8	30
Perfluoropentanesulfonic acid			24.0	22.7		ng/L		95	55 - 140	6	30
Perfluoroheptanesulfonic acid			24.4	24.1		ng/L		99	56 - 140	14	30
Perfluorononanesulfonic acid			24.6	23.8		ng/L		97	59 - 136	5	30
Perfluorodecanesulfonic acid			24.7	22.9		ng/L		93	55 - 137	10	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	20.3		ng/L		82	48 - 138	13	30
Perfluorooctanesulfonamide			25.6	24.7		ng/L		96	43 - 167	7	30
Perfluorohexadecanoic acid			25.6	21.8		ng/L		85	41 - 158	6	30
Perfluorooctadecanoic acid			25.6	24.1		ng/L		94	29 - 172	8	30
Perfluorobutanoic acid			25.6	22.3		ng/L		87	59 - 136	10	30
Perfluoropentanoic acid			25.6	24.7		ng/L		96	57 - 141	15	30
NMeFOSE			25.6	25.0		ng/L		98	55 - 144	14	30
NMeFOSA			25.6	25.9		ng/L		101	64 - 143	1	30
NEtFOSE			25.6	26.5		ng/L		103	60 - 136	13	30
NEtFOSA			25.6	27.2		ng/L		106	61 - 134	6	30
HFPODA			25.6	25.4		ng/L		99	50 - 135	14	30
DONA			24.2	22.9		ng/L		95	55 - 143	5	30
9Cl-PF3ONS			23.8	24.1		ng/L		101	59 - 135	13	30
11Cl-PF3OUdS			23.8	21.9		ng/L		92	53 - 139	8	30
Perfluorododecanoic acid			25.6	26.2		ng/L		102	59 - 143	14	30
4:2 Fluorotelomer sulfonic acid			23.9	22.7		ng/L		95	55 - 139	13	30
Perfluoroundecanoic acid			25.6	25.9		ng/L		101	60 - 141	0	30
6:2 Fluorotelomer sulfonic acid			24.3	24.7		ng/L		102	28 - 173	24	30
8:2 Fluorotelomer sulfonic acid			24.5	22.3		ng/L		91	55 - 138	4	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-4:2 FTS	114		10 - 200

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-320377/3-A
Matrix: Water
Analysis Batch: 321161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320377

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-8:2 FTS	113		33 - 200
M2-6:2 FTS	104		17 - 200
13C5 PFHxA	109		24 - 179
13C4 PFHpA	106		31 - 182
13C8 PFOA	111		48 - 162
13C9 PFNA	105		51 - 167
13C6 PFDA	106		49 - 163
13C7 PFUnA	102		34 - 174
13C2-PFDoDA	94		17 - 176
13C2 PFTeDA	85		10 - 179
13C3 PFBS	113		16 - 200
13C3 PFHxS	104		28 - 188
13C8 PFOS	108		51 - 159
d3-NMeFOSAA	102		31 - 174
d5-NEtFOSAA	107		29 - 195
13C8 FOSA	102		10 - 168
13C4 PFBA	110		42 - 165
13C5 PFPeA	112		38 - 187
d7-N-MeFOSE-M	92		10 - 178
d3-NMePFOSA	71		10 - 155
d9-N-EtFOSE-M	89		10 - 177
d5-NEtPFOSA	84		10 - 159
13C3 HFPO-DA	99		17 - 185

Lab Sample ID: MB 410-320738/1-A
Matrix: Water
Analysis Batch: 323455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorononanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
NEtFOSAA	<3.0		3.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
NMeFOSAA	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
10:2 FTS	<5.0		5.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-320738/1-A
Matrix: Water
Analysis Batch: 323455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
NMeFOSE	<3.0		3.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
NMeFOSA	<3.0		3.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
NEtFOSE	<3.0		3.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
NEtFOSA	<5.0		5.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
HFPODA	<3.0		3.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
DONA	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
9Cl-PF3ONS	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		11/23/22 15:21	12/04/22 19:17	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		11/23/22 15:21	12/04/22 19:17	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*121*		*10 - 200*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
M2-8:2 FTS	*111*		*33 - 200*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
M2-6:2 FTS	*112*		*17 - 200*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C5 PFHxA	*112*		*24 - 179*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C4 PFHpA	*107*		*31 - 182*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C8 PFOA	*103*		*48 - 162*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C9 PFNA	*108*		*51 - 167*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C6 PFDA	*100*		*49 - 163*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C7 PFUnA	*102*		*34 - 174*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C2-PFDoDA	*97*		*17 - 176*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C2 PFTeDA	*98*		*10 - 179*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C3 PFBS	*101*		*16 - 200*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C3 PFHxS	*108*		*28 - 188*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C8 PFOS	*109*		*51 - 159*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
d3-NMeFOSAA	*104*		*31 - 174*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
d5-NEtFOSAA	*109*		*29 - 195*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C8 FOSA	*93*		*10 - 168*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C4 PFBA	*104*		*42 - 165*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C5 PFPeA	*97*		*38 - 187*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
d7-N-MeFOSE-M	*83*		*10 - 178*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
d3-NMePFOSA	*57*		*10 - 155*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
d9-N-EtFOSE-M	*82*		*10 - 177*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
d5-NEtPFOSA	*64*		*10 - 159*	*11/23/22 15:21*	*12/04/22 19:17*	*1*
13C3 HFPO-DA	*103*		*17 - 185*	*11/23/22 15:21*	*12/04/22 19:17*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320738/2-A
Matrix: Water
Analysis Batch: 323455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	25.2		ng/L		98	58 - 139
Perfluoroheptanoic acid	25.6	27.8		ng/L		108	59 - 145
Perfluorooctanoic acid	25.6	26.3		ng/L		103	51 - 145
Perfluorononanoic acid	25.6	26.0		ng/L		102	61 - 139
Perfluorodecanoic acid	25.6	26.7		ng/L		104	56 - 138
Perfluorotridecanoic acid	25.6	27.3		ng/L		107	58 - 146
Perfluorotetradecanoic acid	25.6	25.9		ng/L		101	62 - 139
Perfluorobutanesulfonic acid	22.7	24.8		ng/L		110	53 - 138
Perfluorohexanesulfonic acid	23.3	23.5		ng/L		100	58 - 134
Perfluorooctanesulfonic acid	23.7	24.2		ng/L		102	45 - 150
NEtFOSAA	25.6	26.3		ng/L		103	55 - 134
NMeFOSAA	25.6	26.3		ng/L		103	59 - 140
10:2 FTS	24.7	24.2		ng/L		98	50 - 146
Perfluoropentanesulfonic acid	24.0	25.8		ng/L		108	55 - 140
Perfluoroheptanesulfonic acid	24.4	22.9		ng/L		94	56 - 140
Perfluorononanesulfonic acid	24.6	24.2		ng/L		98	59 - 136
Perfluorodecanesulfonic acid	24.7	24.1		ng/L		98	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	23.6		ng/L		95	48 - 138
Perfluorooctanesulfonamide	25.6	26.3		ng/L		103	43 - 167
Perfluorohexadecanoic acid	25.6	21.9		ng/L		86	41 - 158
Perfluorooctadecanoic acid	25.6	23.3		ng/L		91	29 - 172
Perfluorobutanoic acid	25.6	23.7		ng/L		93	59 - 136
Perfluoropentanoic acid	25.6	26.2		ng/L		102	57 - 141
NMeFOSE	25.6	26.9		ng/L		105	55 - 144
NMeFOSA	25.6	30.9		ng/L		121	64 - 143
NEtFOSE	25.6	26.2		ng/L		102	60 - 136
NEtFOSA	25.6	28.3		ng/L		110	61 - 134
HFPODA	25.6	24.0		ng/L		94	50 - 135
DONA	24.2	22.7		ng/L		94	55 - 143
9Cl-PF3ONS	23.8	23.9		ng/L		100	59 - 135
11Cl-PF3OUdS	23.8	23.6		ng/L		99	53 - 139
Perfluorododecanoic acid	25.6	25.7		ng/L		100	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	25.8		ng/L		108	55 - 139
Perfluoroundecanoic acid	25.6	27.2		ng/L		106	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	24.8		ng/L		102	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	24.2		ng/L		99	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*99*		*10 - 200*
M2-8:2 FTS	*92*		*33 - 200*
M2-6:2 FTS	*95*		*17 - 200*
13C5 PFHxA	*93*		*24 - 179*
13C4 PFHpA	*94*		*31 - 182*
13C8 PFOA	*90*		*48 - 162*
13C9 PFNA	*98*		*51 - 167*
13C6 PFDA	*86*		*49 - 163*
13C7 PFUnA	*83*		*34 - 174*
13C2-PFDoDA	*81*		*17 - 176*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320738/2-A
Matrix: Water
Analysis Batch: 323455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320738

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFTeDA	85		10 - 179
13C3 PFBS	85		16 - 200
13C3 PFHxS	94		28 - 188
13C8 PFOS	99		51 - 159
d3-NMeFOSAA	87		31 - 174
d5-NEtFOSAA	86		29 - 195
13C8 FOSA	81		10 - 168
13C4 PFBA	90		42 - 165
13C5 PFPeA	86		38 - 187
d7-N-MeFOSE-M	67		10 - 178
d3-NMePFOSA	54		10 - 155
d9-N-EtFOSE-M	67		10 - 177
d5-NEtPFOSA	63		10 - 159
13C3 HFPO-DA	92		17 - 185

Lab Sample ID: LCSD 410-320738/3-A
Matrix: Water
Analysis Batch: 323455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320738

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	24.6		ng/L		96	58 - 139	2	30
Perfluoroheptanoic acid			25.6	26.7		ng/L		104	59 - 145	4	30
Perfluorooctanoic acid			25.6	25.8		ng/L		101	51 - 145	2	30
Perfluorononanoic acid			25.6	26.9		ng/L		105	61 - 139	4	30
Perfluorodecanoic acid			25.6	28.7		ng/L		112	56 - 138	8	30
Perfluorotridecanoic acid			25.6	27.1		ng/L		106	58 - 146	1	30
Perfluorotetradecanoic acid			25.6	27.5		ng/L		107	62 - 139	6	30
Perfluorobutanesulfonic acid			22.7	24.9		ng/L		110	53 - 138	0	30
Perfluorohexanesulfonic acid			23.3	23.0		ng/L		98	58 - 134	2	30
Perfluorooctanesulfonic acid			23.7	23.3		ng/L		98	45 - 150	4	30
NEtFOSAA			25.6	26.7		ng/L		104	55 - 134	2	30
NMeFOSAA			25.6	25.9		ng/L		101	59 - 140	2	30
10:2 FTS			24.7	23.4		ng/L		95	50 - 146	3	30
Perfluoropentanesulfonic acid			24.0	26.3		ng/L		110	55 - 140	2	30
Perfluoroheptanesulfonic acid			24.4	23.5		ng/L		96	56 - 140	2	30
Perfluorononanesulfonic acid			24.6	23.7		ng/L		96	59 - 136	2	30
Perfluorodecanesulfonic acid			24.7	23.5		ng/L		95	55 - 137	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	22.5		ng/L		91	48 - 138	5	30
Perfluorooctanesulfonamide			25.6	26.6		ng/L		104	43 - 167	1	30
Perfluorohexadecanoic acid			25.6	22.3		ng/L		87	41 - 158	2	30
Perfluorooctadecanoic acid			25.6	23.5		ng/L		92	29 - 172	1	30
Perfluorobutanoic acid			25.6	23.9		ng/L		93	59 - 136	1	30
Perfluoropentanoic acid			25.6	25.0		ng/L		98	57 - 141	5	30
NMeFOSE			25.6	26.8		ng/L		105	55 - 144	1	30
NMeFOSA			25.6	29.3		ng/L		115	64 - 143	5	30
NEtFOSE			25.6	28.1		ng/L		110	60 - 136	7	30
NEtFOSA			25.6	29.0		ng/L		113	61 - 134	3	30
HFPODA			25.6	22.0		ng/L		86	50 - 135	9	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-320738/3-A
Matrix: Water
Analysis Batch: 323455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320738

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DONA			24.2	22.8		ng/L		94	55 - 143	1	30
9Cl-PF3ONS			23.8	24.6		ng/L		103	59 - 135	3	30
11Cl-PF3OUdS			23.8	23.7		ng/L		99	53 - 139	0	30
Perfluorododecanoic acid			25.6	26.4		ng/L		103	59 - 143	3	30
4:2 Fluorotelomer sulfonic acid			23.9	25.7		ng/L		108	55 - 139	0	30
Perfluoroundecanoic acid			25.6	25.5		ng/L		99	60 - 141	7	30
6:2 Fluorotelomer sulfonic acid			24.3	25.7		ng/L		106	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid			24.5	24.0		ng/L		98	55 - 138	1	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*104*		*10 - 200*
M2-8:2 FTS	*99*		*33 - 200*
M2-6:2 FTS	*96*		*17 - 200*
13C5 PFHxA	*99*		*24 - 179*
13C4 PFHpA	*97*		*31 - 182*
13C8 PFOA	*94*		*48 - 162*
13C9 PFNA	*100*		*51 - 167*
13C6 PFDA	*86*		*49 - 163*
13C7 PFUnA	*90*		*34 - 174*
13C2-PFDoDA	*84*		*17 - 176*
13C2 PFTeDA	*90*		*10 - 179*
13C3 PFBS	*85*		*16 - 200*
13C3 PFHxS	*96*		*28 - 188*
13C8 PFOS	*102*		*51 - 159*
d3-NMeFOSAA	*91*		*31 - 174*
d5-NEtFOSAA	*91*		*29 - 195*
13C8 FOSA	*83*		*10 - 168*
13C4 PFBA	*93*		*42 - 165*
13C5 PFPeA	*90*		*38 - 187*
d7-N-MeFOSE-M	*62*		*10 - 178*
d3-NMePFOSA	*54*		*10 - 155*
d9-N-EtFOSE-M	*61*		*10 - 177*
d5-NEtPFOSA	*57*		*10 - 159*
13C3 HFPO-DA	*109*		*17 - 185*

LCMS

Prep Batch: 319444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-1	RW6-72-GW-31	Total/NA	Water	EPA 537 (mod)	
410-105580-2	RW6-72-GW-31 DUP	Total/NA	Water	EPA 537 (mod)	
410-105580-3	RW6-72-GW-81	Total/NA	Water	EPA 537 (mod)	
410-105580-4	RW15-27-GW-81	Total/NA	Water	EPA 537 (mod)	
410-105580-5	EB-110722	Total/NA	Water	EPA 537 (mod)	
410-105580-6	SL-21-GW-51	Total/NA	Water	EPA 537 (mod)	
410-105580-6 - DL	SL-21-GW-51	Total/NA	Water	EPA 537 (mod)	
410-105580-7	PL-02-GW-56	Total/NA	Water	EPA 537 (mod)	
410-105580-8	PL-01-GW-56	Total/NA	Water	EPA 537 (mod)	
410-105580-9 - DL	RW6-69-GW-91	Total/NA	Water	EPA 537 (mod)	
410-105580-9	RW6-69-GW-91	Total/NA	Water	EPA 537 (mod)	
MB 410-319444/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-319444/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-319444/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 320337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-15	RW15-06-GW-91	Total/NA	Water	EPA 537 (mod)	
410-105580-16	EB-111022	Total/NA	Water	EPA 537 (mod)	
410-105580-17	RW15-28-GW-46	Total/NA	Water	EPA 537 (mod)	
410-105580-18	RW15-28-GW-96	Total/NA	Water	EPA 537 (mod)	
MB 410-320337/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-320337/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-320337/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 320377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-10	RW15-32-GW-51	Total/NA	Water	EPA 537 (mod)	
410-105580-11	RW15-29-GW-91	Total/NA	Water	EPA 537 (mod)	
410-105580-12 - DL	RW15-30-GW-46	Total/NA	Water	EPA 537 (mod)	
410-105580-12	RW15-30-GW-46	Total/NA	Water	EPA 537 (mod)	
410-105580-13	EB-110922	Total/NA	Water	EPA 537 (mod)	
410-105580-14	RW15-31-GW-46	Total/NA	Water	EPA 537 (mod)	
MB 410-320377/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-320377/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-320377/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 320738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-19	FB-111122	Total/NA	Water	EPA 537 (mod)	
MB 410-320738/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-320738/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-320738/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 321161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-10	RW15-32-GW-51	Total/NA	Water	537 IDA	320377
410-105580-11	RW15-29-GW-91	Total/NA	Water	537 IDA	320377
410-105580-12	RW15-30-GW-46	Total/NA	Water	537 IDA	320377
410-105580-13	EB-110922	Total/NA	Water	537 IDA	320377
410-105580-14	RW15-31-GW-46	Total/NA	Water	537 IDA	320377

LCMS (Continued)

Analysis Batch: 321161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-320377/1-A	Method Blank	Total/NA	Water	537 IDA	320377
LCS 410-320377/2-A	Lab Control Sample	Total/NA	Water	537 IDA	320377
LCSD 410-320377/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	320377

Analysis Batch: 321611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-15	RW15-06-GW-91	Total/NA	Water	537 IDA	320337
410-105580-16	EB-111022	Total/NA	Water	537 IDA	320337
410-105580-17	RW15-28-GW-46	Total/NA	Water	537 IDA	320337
410-105580-18	RW15-28-GW-96	Total/NA	Water	537 IDA	320337
MB 410-320337/1-A	Method Blank	Total/NA	Water	537 IDA	320337
LCS 410-320337/2-A	Lab Control Sample	Total/NA	Water	537 IDA	320337
LCSD 410-320337/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	320337

Analysis Batch: 321938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-12 - DL	RW15-30-GW-46	Total/NA	Water	537 IDA	320377

Analysis Batch: 323098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-1	RW6-72-GW-31	Total/NA	Water	537 IDA	319444
410-105580-2	RW6-72-GW-31 DUP	Total/NA	Water	537 IDA	319444
410-105580-3	RW6-72-GW-81	Total/NA	Water	537 IDA	319444
410-105580-4	RW15-27-GW-81	Total/NA	Water	537 IDA	319444
410-105580-5	EB-110722	Total/NA	Water	537 IDA	319444
410-105580-6	SL-21-GW-51	Total/NA	Water	537 IDA	319444
410-105580-7	PL-02-GW-56	Total/NA	Water	537 IDA	319444
410-105580-8	PL-01-GW-56	Total/NA	Water	537 IDA	319444
410-105580-9	RW6-69-GW-91	Total/NA	Water	537 IDA	319444
MB 410-319444/1-A	Method Blank	Total/NA	Water	537 IDA	319444
LCS 410-319444/2-A	Lab Control Sample	Total/NA	Water	537 IDA	319444
LCSD 410-319444/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	319444

Analysis Batch: 323455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-19	FB-111122	Total/NA	Water	537 IDA	320738
MB 410-320738/1-A	Method Blank	Total/NA	Water	537 IDA	320738
LCS 410-320738/2-A	Lab Control Sample	Total/NA	Water	537 IDA	320738
LCSD 410-320738/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	320738

Analysis Batch: 323729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-6 - DL	SL-21-GW-51	Total/NA	Water	537 IDA	319444
410-105580-9 - DL	RW6-69-GW-91	Total/NA	Water	537 IDA	319444

Prep Batch: 328474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-17 - RE	RW15-28-GW-46	Total/NA	Water	EPA 537 (mod)	
MB 410-328474/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-328474/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-328474/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

QC Association Summary

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

Job ID: 410-105580-1

LCMS

Analysis Batch: 329480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105580-17 - RE	RW15-28-GW-46	Total/NA	Water	537 IDA	328474
MB 410-328474/1-A	Method Blank	Total/NA	Water	537 IDA	328474
LCS 410-328474/2-A	Lab Control Sample	Total/NA	Water	537 IDA	328474
LCSD 410-328474/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	328474

Lab Chronicle

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

Job ID: 410-105580-1

Client Sample ID: RW6-72-GW-31
Lab Sample ID: 410-105580-1
Date Collected: 11/07/22 09:30
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA		1	323098	PY4D	ELLE	12/03/22 02:26

Client Sample ID: RW6-72-GW-31 DUP
Lab Sample ID: 410-105580-2
Date Collected: 11/07/22 09:30
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA		1	323098	PY4D	ELLE	12/03/22 02:48

Client Sample ID: RW6-72-GW-81
Lab Sample ID: 410-105580-3
Date Collected: 11/07/22 10:45
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA		1	323098	PY4D	ELLE	12/03/22 02:59

Client Sample ID: RW15-27-GW-81
Lab Sample ID: 410-105580-4
Date Collected: 11/07/22 13:55
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA		1	323098	PY4D	ELLE	12/03/22 03:10

Client Sample ID: EB-110722
Lab Sample ID: 410-105580-5
Date Collected: 11/07/22 14:15
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA		1	323098	PY4D	ELLE	12/03/22 03:22

Client Sample ID: SL-21-GW-51
Lab Sample ID: 410-105580-6
Date Collected: 11/08/22 08:45
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA		1	323098	PY4D	ELLE	12/03/22 03:33
Total/NA	Prep	EPA 537 (mod)	DL		319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA	DL	10	323729	PY4D	ELLE	12/05/22 13:49

Client Sample ID: PL-02-GW-56

Lab Sample ID: 410-105580-7

Date Collected: 11/08/22 11:00

Matrix: Water

Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA		1	323098	PY4D	ELLE	12/03/22 03:44

Client Sample ID: PL-01-GW-56

Lab Sample ID: 410-105580-8

Date Collected: 11/08/22 12:45

Matrix: Water

Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA		1	323098	PY4D	ELLE	12/03/22 03:55

Client Sample ID: RW6-69-GW-91

Lab Sample ID: 410-105580-9

Date Collected: 11/08/22 14:55

Matrix: Water

Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA		1	323098	PY4D	ELLE	12/03/22 04:06
Total/NA	Prep	EPA 537 (mod)	DL		319444	D5VP	ELLE	11/20/22 12:47
Total/NA	Analysis	537 IDA	DL	10	323729	PY4D	ELLE	12/05/22 14:00

Client Sample ID: RW15-32-GW-51

Lab Sample ID: 410-105580-10

Date Collected: 11/09/22 09:00

Matrix: Water

Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320377	K9VR	ELLE	11/22/22 16:40
Total/NA	Analysis	537 IDA		1	321161	UUV6	ELLE	11/29/22 01:14

Client Sample ID: RW15-29-GW-91

Lab Sample ID: 410-105580-11

Date Collected: 11/09/22 10:35

Matrix: Water

Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320377	K9VR	ELLE	11/22/22 16:40
Total/NA	Analysis	537 IDA		1	321161	UUV6	ELLE	11/29/22 01:25

Client Sample ID: RW15-30-GW-46

Lab Sample ID: 410-105580-12

Date Collected: 11/09/22 13:15

Matrix: Water

Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320377	K9VR	ELLE	11/22/22 16:40
Total/NA	Analysis	537 IDA		1	321161	UUV6	ELLE	11/29/22 01:36
Total/NA	Prep	EPA 537 (mod)	DL		320377	K9VR	ELLE	11/22/22 16:40
Total/NA	Analysis	537 IDA	DL	10	321938	UUV6	ELLE	12/01/22 09:31

Client Sample ID: EB-110922
Lab Sample ID: 410-105580-13

Date Collected: 11/09/22 13:35
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320377	K9VR	ELLE	11/22/22 16:40
Total/NA	Analysis	537 IDA		1	321161	UUV6	ELLE	11/29/22 01:58

Client Sample ID: RW15-31-GW-46
Lab Sample ID: 410-105580-14

Date Collected: 11/09/22 14:15
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320377	K9VR	ELLE	11/22/22 16:40
Total/NA	Analysis	537 IDA		1	321161	UUV6	ELLE	11/29/22 02:09

Client Sample ID: RW15-06-GW-91
Lab Sample ID: 410-105580-15

Date Collected: 11/10/22 11:55
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320337	JU9U	ELLE	11/22/22 15:30
Total/NA	Analysis	537 IDA		1	321611	JVK6	ELLE	11/29/22 20:49

Client Sample ID: EB-111022
Lab Sample ID: 410-105580-16

Date Collected: 11/10/22 12:30
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320337	JU9U	ELLE	11/22/22 15:30
Total/NA	Analysis	537 IDA		1	321611	JVK6	ELLE	11/29/22 21:00

Client Sample ID: RW15-28-GW-46
Lab Sample ID: 410-105580-17

Date Collected: 11/10/22 13:35
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320337	JU9U	ELLE	11/22/22 15:30
Total/NA	Analysis	537 IDA		1	321611	JVK6	ELLE	11/29/22 21:22
Total/NA	Prep	EPA 537 (mod)	RE		328474	D5VP	ELLE	12/19/22 10:35
Total/NA	Analysis	537 IDA	RE	1	329480	QD9Y	ELLE	12/22/22 00:42

Client Sample ID: RW15-28-GW-96
Lab Sample ID: 410-105580-18

Date Collected: 11/10/22 14:05
Matrix: Water
Date Received: 11/12/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320337	JU9U	ELLE	11/22/22 15:30
Total/NA	Analysis	537 IDA		1	321611	JVK6	ELLE	11/29/22 21:33

Lab Chronicle

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

Job ID: 410-105580-1

Client Sample ID: FB-111122

Date Collected: 11/11/22 09:30
Date Received: 11/12/22 09:34

Lab Sample ID: 410-105580-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320738	JU9U	ELLE	11/23/22 15:21
Total/NA	Analysis	537 IDA		1	323455	PY4D	ELLE	12/04/22 19:50

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-105580-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	06-30-23

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	EPA 537 (mod)	Water	10:2 FTS
537 IDA	EPA 537 (mod)	Water	11Cl-PF3OUdS
537 IDA	EPA 537 (mod)	Water	4:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (mod)	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (mod)	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (mod)	Water	9Cl-PF3ONS
537 IDA	EPA 537 (mod)	Water	DONA
537 IDA	EPA 537 (mod)	Water	HFPODA
537 IDA	EPA 537 (mod)	Water	NEtFOSA
537 IDA	EPA 537 (mod)	Water	NEtFOSAA
537 IDA	EPA 537 (mod)	Water	NEtFOSE
537 IDA	EPA 537 (mod)	Water	NMeFOSA
537 IDA	EPA 537 (mod)	Water	NMeFOSAA
537 IDA	EPA 537 (mod)	Water	NMeFOSE
537 IDA	EPA 537 (mod)	Water	Perfluorobutanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorobutanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorodecanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorodecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	EPA 537 (mod)	Water	Perfluorododecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluoroheptanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluoroheptanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorohexadecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorohexanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorohexanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorononanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorononanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorooctadecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorooctanesulfonamide
537 IDA	EPA 537 (mod)	Water	Perfluorooctanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorooctanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluoropentanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluoropentanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorotetradecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorotridecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluoroundecanoic acid

Method Summary

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

Job ID: 410-105580-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

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

Job ID: 410-105580-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-105580-1	RW6-72-GW-31	Water	11/07/22 09:30	11/12/22 09:34
410-105580-2	RW6-72-GW-31 DUP	Water	11/07/22 09:30	11/12/22 09:34
410-105580-3	RW6-72-GW-81	Water	11/07/22 10:45	11/12/22 09:34
410-105580-4	RW15-27-GW-81	Water	11/07/22 13:55	11/12/22 09:34
410-105580-5	EB-110722	Water	11/07/22 14:15	11/12/22 09:34
410-105580-6	SL-21-GW-51	Water	11/08/22 08:45	11/12/22 09:34
410-105580-7	PL-02-GW-56	Water	11/08/22 11:00	11/12/22 09:34
410-105580-8	PL-01-GW-56	Water	11/08/22 12:45	11/12/22 09:34
410-105580-9	RW6-69-GW-91	Water	11/08/22 14:55	11/12/22 09:34
410-105580-10	RW15-32-GW-51	Water	11/09/22 09:00	11/12/22 09:34
410-105580-11	RW15-29-GW-91	Water	11/09/22 10:35	11/12/22 09:34
410-105580-12	RW15-30-GW-46	Water	11/09/22 13:15	11/12/22 09:34
410-105580-13	EB-110922	Water	11/09/22 13:35	11/12/22 09:34
410-105580-14	RW15-31-GW-46	Water	11/09/22 14:15	11/12/22 09:34
410-105580-15	RW15-06-GW-91	Water	11/10/22 11:55	11/12/22 09:34
410-105580-16	EB-111022	Water	11/10/22 12:30	11/12/22 09:34
410-105580-17	RW15-28-GW-46	Water	11/10/22 13:35	11/12/22 09:34
410-105580-18	RW15-28-GW-96	Water	11/10/22 14:05	11/12/22 09:34
410-105580-19	FB-111122	Water	11/11/22 09:30	11/12/22 09:34

Chain of Custody Record

eurofins | Environment Testing America

410-105580 Chain of Custody

Client Contact: Mr. Matthew Kenney	Sampler: M. KENNEY / W. TIFFT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68375-7540.6
Company: Weston Solutions, Inc.	Phone: 860 712 7684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 1 of 3 (MK)
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; Y - Trizma; 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 #: 41001960			
	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)	PFC_IDA - 36 PFAS	Moisture - Moisture	Special Instructions/Note:
RW6-72-GW-31	11/7/22	0930	G	~~Solid~~ WATER	X		
RW6-72-GW-31 DUP		0930		~~Solid~~ WATER			
RW6-72-GW-81		1045		~~Solid~~ WATER			
RW15-27-GW-81		1355		~~Solid~~ WATER			
EB-110722		1415		~~Solid~~ WATER			C. VALVE
SL-21-GW-51 (MD)	11/8/22	0845		WATER			
PL-02-GW-56		1100					
PL-01-GW-56		1245					
RW6-69-GW-91		1455					
RW15-32-GW-51	11/9/22	0900					
RW15-29-GW-91		1035					

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: 11/11/22 1145	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: 11/12/22 0934	Company

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

Cooler Temperature(s) °C and Other Remarks: 2.4

Ver: 06/08/2021

SR

Eurofins Lancaster Laboratories Environme
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: MK / WT	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68375-7540.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 2 of 3 (MP)
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, Y - Trizma, Z - other (specify)
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			Other:
Phone:	PO #: 0102971			
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)	PFC_IDA - 36 PFAS	Moisture - Moisture	Total Number of containers	Special Instructions/Note:
			Preserv				N	N		
RW15-30-GW-46	11/9/22	1315	G	~~Solid~~ WATER			X			
EB-110922		1335		~~Solid~~ WATER						WLM
RW15-31-GW-46		1415		~~Solid~~ WATER						
RW15-06-GW-91	11/10/22	1155		~~Solid~~ WATER						
EB-111022		1230		~~Solid~~ WATER						ROD
RW15-28-GW-46		1335		~~Solid~~ WATER						
RW15-28-GW-96		1405		~~Solid~~ WATER						
FB-111122	11/11/22	0930		~~Solid~~ WATER						M. KENNEY
				~~Solid~~ WATER						
				~~Solid~~ WATER						
				~~Solid~~ WATER						

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: FEDEX

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/11/22 1145	WESTON			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
d by:	Date/Time:	Company	Received by:	Date/Time: 11/12/22 0934	Company

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

Cooler Temperature(s)°C and Other Remarks: 2.4

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-105580-1

Login Number: 105580 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: Roth, Stephanie

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-105580-1
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: Kathleen Lloyd **Position:** QA Specialist

Printed Name: Kathleen Lloyd, designee for Elizabeth Zanar, Project Manager **Date:** 12/27/2022

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-106099-1

WESTON SAMPLE IDs: NOR-17-S-00-01, NOR-14-S-20-30, NOR-14-S-30-40, NOR-14-S-40-50, NOR-15-S-04-06, NOR-15-S-06-08, NOR-15-S-08-10, NOR-15-S-15-20, NOR-15-S-20-30, NOR-15-S-30-40, NOR-15-S-40-50, NOR-15-S-50-55, EB-111422, RW6-73-GW-76, FB-111522, IES-WFCT-1122, IES-WFCT-1122 DUP

Data Reviewed	**Fraction**				**Comments**
	PFAS 537.1 Mod				
Chain of Custody	√				Container label lists IES-WFCT-1122 but COC lists IES-WFCT-1122 DUP. Laboratory logged in based on COC.
Percent Solids/RLs	√				Analytes reported between MDL and RL flagged as estimated J. RW6-73-GW-76: 6:2 FTS and PFPeA diluted 10X.
Preservation/Log Sheet	√				
Holding Time	NOR-14-S-20-30 NOR-14-S-30-40 NOR-14-S-40-50 NOR-15-S-20-30 NOR-15-S-30-40 NOR-15-S-40-50 NOR-15-S-50-55				Client requested samples be analyzed out of hold. All detects flagged as estimated J. All non-detects flagged as estimated UJ.
Field Blanks (Trip/Equip.)	NA				
Instrument/Method Blanks (Soils/Solids)					
Instrument/Method Blanks (Aqueous)	NA				
MS/MSD (Soil/Solids)	NOR-15-S-04-06 NOR-14-S-20-30				NOR-15-S-04-06: RPD high for PFODA. PFODA not detected in the parent sample. No qualifiers applied.
MS/MSD (Aqueous)	NA				
LCS/LCSD	√				
ICAL/ICV/CCV	√				
Lab Duplicates	NA				
Field Duplicates	√				IES-WFCT-1122 and IES-WFCT-1122 DUP

Isotope Dilution Recoveries	NOR-15-S-04-06 NOR-15-S-06-08 NOR-15-S-15-20 RW6-73-GW-76				NOR-15-S-04-06, NOR-15-S-06-08, NOR-15-S-15-20: d3-NMeFOSAA low: qualify NMeFOSAA non-detects as estimated UJ. NOR-15-S-04-06, NOR-15-S-15-20: d5-NEtFOSAA low: qualify NEtFOSAA non-detects as estimated UJ. RW6-73-GW-76: M2-4:2 FTS high: qualify 4:2 FTS as estimated J.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: J, UJ

Data Reviewer Initials: RBE
Date: 1/27/2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Generated 1/25/2023 9:36:15 AM

JOB DESCRIPTION

Nantucket

JOB NUMBER

410-106099-1

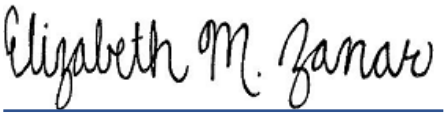
Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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1/25/2023 9:36:15 AM

Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

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

Job ID: 410-106099-1

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.
cn	Refer to Case Narrative for further detail
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
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
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 Environment Testing, LLC	Project #:	410-106099-1
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:** 01/20/2023

Job ID: 410-106099-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-106099-1

Receipt
The samples were received on 11/17/2022 10:05 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 0.2°C

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): IES-WFCT-1122 DUP (410-106099-20). The container labels list IES-WFCT-1122, while the COC lists IES-WFCT-1122 DUP. The client was contacted, and the lab will follow the COC.

PFAS
Method PFC_IDA: The recovery for the labeled isotope(s) M2-4:2 FTS in the following sample: RW6-73-GW-76 (410-106099-17) are outside of the QC limits. The recovery for target analytes is between the MDL and the RL. The data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) d3-NMeFOSAA and d5-NEtFOSAA in the following background sample: NOR-15-S-04-06 (410-106099-8) is outside the QC acceptance limits. The recovery for labeled isotope(s) is also outside of the QC acceptance limits in the associated matrix spike and matrix spike duplicate sample(s).

Method PFC_IDA: The holding time was not met. Per client request, the analysis for the following samples was added after the hold time had already expired: NOR-14-S-20-30 (410-106099-5), NOR-14-S-30-40 (410-106099-6), NOR-14-S-40-50 (410-106099-7), NOR-15-S-20-30 (410-106099-12), NOR-15-S-30-40 (410-106099-13), NOR-15-S-40-50 (410-106099-14) and NOR-15-S-50-55 (410-106099-15).

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: 410-106099-1

Client Sample ID: NOR-17-S-00-01 — Lab Sample ID: 410-106099-1

No Detections.

Client Sample ID: NOR-14-S-20-30 — Lab Sample ID: 410-106099-5

No Detections.

Client Sample ID: NOR-14-S-30-40 — Lab Sample ID: 410-106099-6

No Detections.

Client Sample ID: NOR-14-S-40-50 — Lab Sample ID: 410-106099-7

No Detections.

Client Sample ID: NOR-15-S-04-06 — Lab Sample ID: 410-106099-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.5		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.3		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.8		0.62	0.21	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	26		2.1	0.62	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-15-S-06-08 — Lab Sample ID: 410-106099-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.70		0.56	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.3		0.56	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.64		0.56	0.19	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	22		1.9	0.56	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-15-S-08-10 — Lab Sample ID: 410-106099-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.43	J I	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.46	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.38	J	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	8.7		1.9	0.58	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-15-S-15-20 — Lab Sample ID: 410-106099-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.3		0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	1.2		0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	1.4		0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	26		1.9	0.57	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-15-S-20-30 — Lab Sample ID: 410-106099-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.59	H cn	0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.70	H cn	0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.37	J H cn	0.57	0.19	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	1.6	J H cn	1.9	0.57	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: 410-106099-1

Client Sample ID: NOR-15-S-30-40 — Lab Sample ID: 410-106099-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.33	J H cn	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.41	J H cn	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.28	J H cn	0.58	0.19	ng/g	1	☼	537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid	0.83	J H cn	1.9	0.58	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-15-S-40-50 — Lab Sample ID: 410-106099-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.44	J H cn	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoroheptanoic acid	0.33	J H cn	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.23	J H cn	0.61	0.20	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: NOR-15-S-50-55 — Lab Sample ID: 410-106099-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.42	J H cn	0.67	0.22	ng/g	1	☼	537 IDA	Total/NA
Perfluoropentanoic acid	0.48	J H cn	0.67	0.22	ng/g	1	☼	537 IDA	Total/NA

Client Sample ID: EB-111422 — Lab Sample ID: 410-106099-16

No Detections.

Client Sample ID: RW6-73-GW-76 — Lab Sample ID: 410-106099-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	260		1.8	0.82	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	240		1.8	0.46	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	130		1.8	0.46	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	42		1.8	0.46	ng/L	1		537 IDA	Total/NA
Perfluorodecanoic acid	24		1.8	0.46	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	1.0	J	1.8	0.46	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	14		1.8	0.46	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	56		1.8	0.91	ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	0.59	J	1.8	0.46	ng/L	1		537 IDA	Total/NA
Perfluoroheptanesulfonic acid	0.71	J	1.8	0.46	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	120		4.6	1.8	ng/L	1		537 IDA	Total/NA
Perfluorododecanoic acid	0.79	J	1.8	0.46	ng/L	1		537 IDA	Total/NA
4:2 Fluorotelomer sulfonic acid	0.75	J	1.8	0.46	ng/L	1		537 IDA	Total/NA
Perfluoroundecanoic acid	3.5		1.8	0.46	ng/L	1		537 IDA	Total/NA
8:2 Fluorotelomer sulfonic acid	120		2.7	0.91	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - DL	480		18	4.6	ng/L	10		537 IDA	Total/NA
6:2 Fluorotelomer sulfonic acid - DL	2200		46	38	ng/L	10		537 IDA	Total/NA

Client Sample ID: FB-111522 — Lab Sample ID: 410-106099-18

No Detections.

Client Sample ID: IES-WFCT-1122 — Lab Sample ID: 410-106099-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	9.5		1.6	0.41	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonamide	0.63	J	1.6	0.57	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.42	J	1.6	0.41	ng/L	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: 410-106099-1

Client Sample ID: IES-WFCT-1122 DUP

Lab Sample ID: 410-106099-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.41	J	1.6	0.41	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	9.4		1.6	0.41	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonamide	0.64	J	1.6	0.57	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 410-106099-1

Client Sample ID: NOR-17-S-00-01
Date Collected: 11/14/22 09:25
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-1
Matrix: Solid
Percent Solids: 95.1

Method: EPA 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	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluoroheptanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorooctanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorobutanesulfonic acid	<0.39		1.9	0.39	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorooctanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluoropentanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
HFPODA	<0.96		1.9	0.96	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
DONA	<0.19		2.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
Perfluoroundecanoic acid	<0.19		0.58	0.19	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
6:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	11/22/22 09:33	11/23/22 16:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*107*		*10 - 200*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
M2-6:2 FTS	*105*		*10 - 200*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
13C5 PFHxA	*112*		*10 - 174*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
13C4 PFHpA	*113*		*10 - 178*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
13C8 PFOA	*107*		*26 - 159*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
13C9 PFNA	*122*		*26 - 165*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
13C6 PFDA	*113*		*26 - 161*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
13C7 PFUnA	*120*		*12 - 173*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
13C2-PFDoDA	*122*		*11 - 166*	*11/22/22 09:33*	*11/23/22 16:25*	*1*
13C2 PFTeDA	*134*		*10 - 169*	*11/22/22 09:33*	*11/23/22 16:25*	*1*

Client Sample ID: NOR-17-S-00-01

Lab Sample ID: 410-106099-1

Date Collected: 11/14/22 09:25
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 95.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	115		27 - 179	11/22/22 09:33	11/23/22 16:25	1
13C3 PFHxS	118		24 - 171	11/22/22 09:33	11/23/22 16:25	1
13C8 PFOS	124		41 - 154	11/22/22 09:33	11/23/22 16:25	1
d3-NMeFOSAA	85		10 - 178	11/22/22 09:33	11/23/22 16:25	1
d5-NEtFOSAA	102		10 - 193	11/22/22 09:33	11/23/22 16:25	1
13C8 FOSA	106		14 - 163	11/22/22 09:33	11/23/22 16:25	1
13C4 PFBA	112		28 - 153	11/22/22 09:33	11/23/22 16:25	1
13C5 PFPeA	120		24 - 161	11/22/22 09:33	11/23/22 16:25	1
d7-N-MeFOSE-M	107		10 - 179	11/22/22 09:33	11/23/22 16:25	1
d3-NMePFOSA	98		10 - 175	11/22/22 09:33	11/23/22 16:25	1
d9-N-EtFOSE-M	119		10 - 185	11/22/22 09:33	11/23/22 16:25	1
d5-NEtPFOSA	99		10 - 180	11/22/22 09:33	11/23/22 16:25	1
13C3 HFPO-DA	117		10 - 169	11/22/22 09:33	11/23/22 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.9		1.0	1.0	%			11/17/22 14:01	1

Client Sample ID: NOR-14-S-20-30

Lab Sample ID: 410-106099-5

Date Collected: 11/14/22 10:20
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluoroheptanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorooctanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorononanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorodecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorotridecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorotetradecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorobutanesulfonic acid	<0.39	H cn	1.9	0.39	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorohexanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorooctanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
NEtFOSAA	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
NMeFOSAA	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
10:2 FTS	<0.58	H cn	1.9	0.58	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluoropentanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluoroheptanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorononanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorodecanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorooctanesulfonamide	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorohexadecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorooctadecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorobutanoic acid	<0.78	H cn	1.9	0.78	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluoropentanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
NMeFOSE	<0.49	H cn	1.9	0.49	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
NMeFOSA	<0.49	H cn	1.9	0.49	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1

Client Sample ID: NOR-14-S-20-30

Lab Sample ID: 410-106099-5

Date Collected: 11/14/22 10:20
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.49	H cn	1.9	0.49	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
NEtFOSA	<0.49	H cn	1.9	0.49	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
HFPODA	<0.97	H cn	1.9	0.97	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
DONA	<0.19	H cn	2.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
9Cl-PF3ONS	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
11Cl-PF3OUdS	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluorododecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
4:2 Fluorotelomer sulfonic acid	<0.58	H cn	1.9	0.58	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
Perfluoroundecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
6:2 Fluorotelomer sulfonic acid	<0.58	H cn	1.9	0.58	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1
8:2 Fluorotelomer sulfonic acid	<0.58	H cn	2.9	0.58	ng/g	☼	01/16/23 18:00	01/20/23 03:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*82*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
M2-8:2 FTS	*91*	*cn*	*15 - 200*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
M2-6:2 FTS	*91*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C5 PFHxA	*71*	*cn*	*10 - 174*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C4 PFHpA	*86*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C8 PFOA	*93*	*cn*	*26 - 159*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C9 PFNA	*104*	*cn*	*26 - 165*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C6 PFDA	*88*	*cn*	*26 - 161*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C7 PFUnA	*99*	*cn*	*12 - 173*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C2-PFDoDA	*101*	*cn*	*11 - 166*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C2 PFTeDA	*95*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C3 PFBS	*98*	*cn*	*27 - 179*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C3 PFHxS	*100*	*cn*	*24 - 171*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C8 PFOS	*109*	*cn*	*41 - 154*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
d3-NMeFOSAA	*26*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
d5-NEtFOSAA	*28*	*cn*	*10 - 193*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C8 FOSA	*88*	*cn*	*14 - 163*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C4 PFBA	*95*	*cn*	*28 - 153*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C5 PFPeA	*85*	*cn*	*24 - 161*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
d7-N-MeFOSE-M	*95*	*cn*	*10 - 179*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
d3-NMePFOSA	*94*	*cn*	*10 - 175*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
d9-N-EtFOSE-M	*95*	*cn*	*10 - 185*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
d5-NEtPFOSA	*90*	*cn*	*10 - 180*	*01/16/23 18:00*	*01/20/23 03:25*	*1*
13C3 HFPO-DA	*91*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 03:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.2**		1.0	1.0	%			01/12/23 12:51	1

Client Sample ID: NOR-14-S-30-40

Lab Sample ID: 410-106099-6

Date Collected: 11/14/22 10:45
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluoroheptanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorooctanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1

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

Job ID: 410-106099-1

Client Sample ID: NOR-14-S-30-40
Date Collected: 11/14/22 10:45
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-6
Matrix: Solid
Percent Solids: 97.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorodecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorotridecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorotetradecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorobutanesulfonic acid	<0.40	H cn	2.0	0.40	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorohexanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorooctanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
NEtFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
NMeFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
10:2 FTS	<0.61	H cn	2.0	0.61	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluoropentanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluoroheptanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorononanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorodecanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorooctanesulfonamide	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorohexadecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorooctadecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorobutanoic acid	<0.81	H cn	2.0	0.81	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluoropentanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
NMeFOSE	<0.51	H cn	2.0	0.51	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
NMeFOSA	<0.51	H cn	2.0	0.51	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
NEtFOSE	<0.51	H cn	2.0	0.51	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
NEtFOSA	<0.51	H cn	2.0	0.51	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
HFPODA	<1.0	H cn	2.0	1.0	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
DONA	<0.20	H cn	3.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
9Cl-PF3ONS	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
11Cl-PF3OUdS	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluorododecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
4:2 Fluorotelomer sulfonic acid	<0.61	H cn	2.0	0.61	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
Perfluoroundecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
6:2 Fluorotelomer sulfonic acid	<0.61	H cn	2.0	0.61	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1
8:2 Fluorotelomer sulfonic acid	<0.61	H cn	3.0	0.61	ng/g	☼	01/16/23 18:00	01/20/23 03:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*84*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
M2-8:2 FTS	*100*	*cn*	*15 - 200*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
M2-6:2 FTS	*85*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C5 PFHxA	*84*	*cn*	*10 - 174*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C4 PFHpA	*81*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C8 PFOA	*84*	*cn*	*26 - 159*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C9 PFNA	*96*	*cn*	*26 - 165*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C6 PFDA	*77*	*cn*	*26 - 161*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C7 PFUnA	*94*	*cn*	*12 - 173*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C2-PFDoDA	*88*	*cn*	*11 - 166*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C2 PFTeDA	*89*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C3 PFBS	*90*	*cn*	*27 - 179*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C3 PFHxS	*96*	*cn*	*24 - 171*	*01/16/23 18:00*	*01/20/23 03:58*	*1*
13C8 PFOS	*116*	*cn*	*41 - 154*	*01/16/23 18:00*	*01/20/23 03:58*	*1*

Client Sample ID: NOR-14-S-30-40

Lab Sample ID: 410-106099-6

Date Collected: 11/14/22 10:45
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.8

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	21	cn	10 - 178	01/16/23 18:00	01/20/23 03:58	1
d5-NEtFOSAA	29	cn	10 - 193	01/16/23 18:00	01/20/23 03:58	1
13C8 FOSA	87	cn	14 - 163	01/16/23 18:00	01/20/23 03:58	1
13C4 PFBA	84	cn	28 - 153	01/16/23 18:00	01/20/23 03:58	1
13C5 PFPeA	74	cn	24 - 161	01/16/23 18:00	01/20/23 03:58	1
d7-N-MeFOSE-M	97	cn	10 - 179	01/16/23 18:00	01/20/23 03:58	1
d3-NMePFOSA	78	cn	10 - 175	01/16/23 18:00	01/20/23 03:58	1
d9-N-EtFOSE-M	85	cn	10 - 185	01/16/23 18:00	01/20/23 03:58	1
d5-NEtPFOSA	82	cn	10 - 180	01/16/23 18:00	01/20/23 03:58	1
13C3 HFPO-DA	96	cn	10 - 169	01/16/23 18:00	01/20/23 03:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.2		1.0	1.0	%			01/12/23 12:51	1

Client Sample ID: NOR-14-S-40-50

Lab Sample ID: 410-106099-7

Date Collected: 11/14/22 11:30
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluoroheptanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorooctanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorononanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorodecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorotridecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorotetradecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorobutanesulfonic acid	<0.40	H cn	2.0	0.40	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorohexanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorooctanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
NEtFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
NMeFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
10:2 FTS	<0.59	H cn	2.0	0.59	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluoropentanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluoroheptanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorononanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorodecanesulfonic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorooctanesulfonamide	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorohexadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorooctadecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorobutanoic acid	<0.79	H cn	2.0	0.79	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluoropentanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
NMeFOSE	<0.50	H cn	2.0	0.50	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
NMeFOSA	<0.50	H cn	2.0	0.50	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
NEtFOSE	<0.50	H cn	2.0	0.50	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
NEtFOSA	<0.50	H cn	2.0	0.50	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
HFPODA	<0.99	H cn	2.0	0.99	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1

Client Sample ID: NOR-14-S-40-50

Lab Sample ID: 410-106099-7

Date Collected: 11/14/22 11:30
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	<0.20	H cn	3.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
9Cl-PF3ONS	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
11Cl-PF3OUdS	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluorododecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
4:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
Perfluoroundecanoic acid	<0.20	H cn	0.59	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
6:2 Fluorotelomer sulfonic acid	<0.59	H cn	2.0	0.59	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1
8:2 Fluorotelomer sulfonic acid	<0.59	H cn	3.0	0.59	ng/g	☼	01/16/23 18:00	01/20/23 04:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*84*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
M2-8:2 FTS	*79*	*cn*	*15 - 200*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
M2-6:2 FTS	*82*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C5 PFHxA	*100*	*cn*	*10 - 174*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C4 PFHpA	*101*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C8 PFOA	*96*	*cn*	*26 - 159*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C9 PFNA	*94*	*cn*	*26 - 165*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C6 PFDA	*92*	*cn*	*26 - 161*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C7 PFUnA	*88*	*cn*	*12 - 173*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C2-PFDoDA	*86*	*cn*	*11 - 166*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C2 PFTeDA	*78*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C3 PFBS	*89*	*cn*	*27 - 179*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C3 PFHxS	*92*	*cn*	*24 - 171*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C8 PFOS	*101*	*cn*	*41 - 154*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
d3-NMeFOSAA	*32*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
d5-NEtFOSAA	*38*	*cn*	*10 - 193*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C8 FOSA	*83*	*cn*	*14 - 163*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C4 PFBA	*95*	*cn*	*28 - 153*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C5 PFPeA	*85*	*cn*	*24 - 161*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
d7-N-MeFOSE-M	*81*	*cn*	*10 - 179*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
d3-NMePFOSA	*80*	*cn*	*10 - 175*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
d9-N-EtFOSE-M	*84*	*cn*	*10 - 185*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
d5-NEtPFOSA	*78*	*cn*	*10 - 180*	*01/16/23 18:00*	*01/20/23 04:09*	*1*
13C3 HFPO-DA	*98*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 04:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.9**		1.0	1.0	%			01/12/23 12:51	1

Client Sample ID: NOR-15-S-04-06

Lab Sample ID: 410-106099-8

Date Collected: 11/14/22 13:25
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.5**		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluoroheptanoic acid	**1.3**		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorooctanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorononanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorodecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorotridecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1

Client Sample ID: NOR-15-S-04-06
Date Collected: 11/14/22 13:25
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-8
Matrix: Solid
Percent Solids: 96.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorobutanesulfonic acid	<0.41		2.1	0.41	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorohexanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorooctanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
NEtFOSAA	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
NMeFOSAA	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
10:2 FTS	<0.62		2.1	0.62	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluoropentanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluoroheptanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorononanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorodecanesulfonic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorooctanesulfonamide	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorohexadecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorooctadecanoic acid	<0.21	F2	0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorobutanoic acid	<0.83		2.1	0.83	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluoropentanoic acid	**1.8**		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
NMeFOSE	<0.52		2.1	0.52	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
NMeFOSA	<0.52		2.1	0.52	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
NEtFOSE	<0.52		2.1	0.52	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
NEtFOSA	<0.52		2.1	0.52	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
HFPODA	<1.0		2.1	1.0	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
DONA	<0.21		3.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
9Cl-PF3ONS	<0.21		2.1	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
11Cl-PF3OUdS	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluorododecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
4:2 Fluorotelomer sulfonic acid	<0.62		2.1	0.62	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
Perfluoroundecanoic acid	<0.21		0.62	0.21	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
6:2 Fluorotelomer sulfonic acid	**26**		2.1	0.62	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1
8:2 Fluorotelomer sulfonic acid	<0.62		3.1	0.62	ng/g	☼	11/22/22 09:33	11/23/22 16:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*71*		*10 - 200*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
M2-8:2 FTS	*79*		*15 - 200*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
M2-6:2 FTS	*69*		*10 - 200*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C5 PFHxA	*71*		*10 - 174*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C4 PFHpA	*73*		*10 - 178*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C8 PFOA	*75*		*26 - 159*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C9 PFNA	*81*		*26 - 165*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C6 PFDA	*75*		*26 - 161*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C7 PFUnA	*76*		*12 - 173*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C2-PFDoDA	*87*		*11 - 166*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C2 PFTeDA	*92*		*10 - 169*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C3 PFBS	*107*		*27 - 179*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C3 PFHxS	*112*		*24 - 171*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C8 PFOS	*112*		*41 - 154*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
d3-NMeFOSAA	*5*	**5- cn*	*10 - 178*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
d5-NEtFOSAA	*7*	**5- cn*	*10 - 193*	*11/22/22 09:33*	*11/23/22 16:36*	*1*
13C8 FOSA	*112*		*14 - 163*	*11/22/22 09:33*	*11/23/22 16:36*	*1*

Client Sample ID: NOR-15-S-04-06

Lab Sample ID: 410-106099-8

Date Collected: 11/14/22 13:25
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.6

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	66		28 - 153	11/22/22 09:33	11/23/22 16:36	1
13C5 PFPeA	67		24 - 161	11/22/22 09:33	11/23/22 16:36	1
d7-N-MeFOSE-M	122		10 - 179	11/22/22 09:33	11/23/22 16:36	1
d3-NMePFOSA	107		10 - 175	11/22/22 09:33	11/23/22 16:36	1
d9-N-EtFOSE-M	125		10 - 185	11/22/22 09:33	11/23/22 16:36	1
d5-NEtPFOSA	108		10 - 180	11/22/22 09:33	11/23/22 16:36	1
13C3 HFPO-DA	84		10 - 169	11/22/22 09:33	11/23/22 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.4**		1.0	1.0	%			11/17/22 14:01	1

Client Sample ID: NOR-15-S-06-08

Lab Sample ID: 410-106099-9

Date Collected: 11/14/22 13:27
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.70**		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluoroheptanoic acid	**1.3**		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorooctanoic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorononanoic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorodecanoic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorotridecanoic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorotetradecanoic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorohexanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorooctanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
10:2 FTS	<0.56		1.9	0.56	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluoropentanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluoroheptanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorononanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorodecanesulfonic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorooctanesulfonamide	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorohexadecanoic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorooctadecanoic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluorobutanoic acid	<0.75		1.9	0.75	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluoropentanoic acid	**0.64**		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
NMeFOSE	<0.47		1.9	0.47	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
NMeFOSA	<0.47		1.9	0.47	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
NEtFOSE	<0.47		1.9	0.47	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
NEtFOSA	<0.47		1.9	0.47	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
HFPODA	<0.94		1.9	0.94	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
DONA	<0.19		2.8	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
11Cl-PF3OUdS	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1

Client Sample ID: NOR-15-S-06-08

Lab Sample ID: 410-106099-9
Date Collected: 11/14/22 13:27
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.9

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
4:2 Fluorotelomer sulfonic acid	<0.56		1.9	0.56	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
Perfluoroundecanoic acid	<0.19		0.56	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
6:2 Fluorotelomer sulfonic acid	**22**		1.9	0.56	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1
8:2 Fluorotelomer sulfonic acid	<0.56		2.8	0.56	ng/g	☼	12/09/22 10:19	12/12/22 20:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*81*		*10 - 200*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
M2-8:2 FTS	*98*		*15 - 200*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C5 PFHxA	*82*		*10 - 174*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C4 PFHpA	*76*		*10 - 178*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C8 PFOA	*79*		*26 - 159*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C9 PFNA	*84*		*26 - 165*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C6 PFDA	*82*		*26 - 161*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C7 PFUnA	*93*		*12 - 173*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C2-PFDoDA	*85*		*11 - 166*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C2 PFTeDA	*93*		*10 - 169*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C3 PFBS	*89*		*27 - 179*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C3 PFHxS	*85*		*24 - 171*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C8 PFOS	*97*		*41 - 154*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
d3-NMeFOSAA	*7*	*5-	*10 - 178*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
d5-NEtFOSAA	*10*		*10 - 193*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C8 FOSA	*88*		*14 - 163*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C4 PFBA	*76*		*28 - 153*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C5 PFPeA	*80*		*24 - 161*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
d7-N-MeFOSE-M	*88*		*10 - 179*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
d3-NMePFOSA	*77*		*10 - 175*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
d9-N-EtFOSE-M	*93*		*10 - 185*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
d5-NEtPFOSA	*88*		*10 - 180*	*12/09/22 10:19*	*12/12/22 20:33*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*12/09/22 10:19*	*12/12/22 20:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.1**		1.0	1.0	%			12/06/22 12:39	1

Client Sample ID: NOR-15-S-08-10

Lab Sample ID: 410-106099-10
Date Collected: 11/14/22 13:30
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.43**	**J I**	0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluoroheptanoic acid	**0.46**	**J**	0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorooctanoic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorononanoic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorodecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorotridecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorotetradecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorohexanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1

Client Sample ID: NOR-15-S-08-10
Date Collected: 11/14/22 13:30
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-10
Matrix: Solid
Percent Solids: 97.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
10:2 FTS	<0.58		1.9	0.58	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluoropentanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluoroheptanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorononanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorodecanesulfonic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorooctanesulfonamide	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorohexadecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorooctadecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorobutanoic acid	<0.77		1.9	0.77	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluoropentanoic acid	**0.38**	**J**	0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
NMeFOSE	<0.48		1.9	0.48	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
NMeFOSA	<0.48		1.9	0.48	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
NEtFOSE	<0.48		1.9	0.48	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
NEtFOSA	<0.48		1.9	0.48	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
HFPODA	<0.96		1.9	0.96	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
DONA	<0.19		2.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
11Cl-PF3OUdS	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluorododecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
4:2 Fluorotelomer sulfonic acid	<0.58		1.9	0.58	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
Perfluoroundecanoic acid	<0.19		0.58	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
6:2 Fluorotelomer sulfonic acid	**8.7**		1.9	0.58	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1
8:2 Fluorotelomer sulfonic acid	<0.58		2.9	0.58	ng/g	☼	12/09/22 10:19	12/12/22 20:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*10 - 200*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
M2-8:2 FTS	*95*		*15 - 200*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C5 PFHxA	*91*		*10 - 174*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C4 PFHpA	*87*		*10 - 178*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C8 PFOA	*92*		*26 - 159*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C9 PFNA	*90*		*26 - 165*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C6 PFDA	*86*		*26 - 161*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C7 PFUnA	*94*		*12 - 173*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C2-PFDoDA	*80*		*11 - 166*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C2 PFTeDA	*96*		*10 - 169*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C3 PFBS	*88*		*27 - 179*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C3 PFHxS	*94*		*24 - 171*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C8 PFOS	*104*		*41 - 154*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
d3-NMeFOSAA	*27*		*10 - 178*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
d5-NEtFOSAA	*33*		*10 - 193*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C8 FOSA	*89*		*14 - 163*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C4 PFBA	*86*		*28 - 153*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
13C5 PFPeA	*82*		*24 - 161*	*12/09/22 10:19*	*12/12/22 20:44*	*1*
d7-N-MeFOSE-M	*85*		*10 - 179*	*12/09/22 10:19*	*12/12/22 20:44*	*1*

Client Sample ID: NOR-15-S-08-10

Lab Sample ID: 410-106099-10

Date Collected: 11/14/22 13:30
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	78		10 - 175	12/09/22 10:19	12/12/22 20:44	1
d9-N-EtFOSE-M	93		10 - 185	12/09/22 10:19	12/12/22 20:44	1
d5-NEtPFOSA	84		10 - 180	12/09/22 10:19	12/12/22 20:44	1
13C3 HFPO-DA	83		10 - 169	12/09/22 10:19	12/12/22 20:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.6		1.0	1.0	%			12/06/22 12:39	1

Client Sample ID: NOR-15-S-15-20

Lab Sample ID: 410-106099-11

Date Collected: 11/14/22 13:45
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.0

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.3		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluoroheptanoic acid	1.2		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorooctanoic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorononanoic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorodecanoic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorotridecanoic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorotetradecanoic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorobutanesulfonic acid	<0.38		1.9	0.38	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorohexanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorooctanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
NEtFOSAA	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
NMeFOSAA	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
10:2 FTS	<0.57		1.9	0.57	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluoropentanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluoroheptanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorononanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorodecanesulfonic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorooctanesulfonamide	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorohexadecanoic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorooctadecanoic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorobutanoic acid	<0.76		1.9	0.76	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluoropentanoic acid	1.4		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
NMeFOSE	<0.47		1.9	0.47	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
NMeFOSA	<0.47		1.9	0.47	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
NEtFOSE	<0.47		1.9	0.47	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
NEtFOSA	<0.47		1.9	0.47	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
HFPODA	<0.95		1.9	0.95	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
DONA	<0.19		2.8	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
9Cl-PF3ONS	<0.19		1.9	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
11Cl-PF3OUdS	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluorododecanoic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
4:2 Fluorotelomer sulfonic acid	<0.57		1.9	0.57	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
Perfluoroundecanoic acid	<0.19		0.57	0.19	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1

Client Sample ID: NOR-15-S-15-20

Lab Sample ID: 410-106099-11

Date Collected: 11/14/22 13:45
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.0

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	**26**		1.9	0.57	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1
8:2 Fluorotelomer sulfonic acid	<0.57		2.8	0.57	ng/g	☼	12/09/22 10:19	12/12/22 20:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*10 - 200*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
M2-8:2 FTS	*102*		*15 - 200*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C5 PFHxA	*87*		*10 - 174*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C4 PFHpA	*91*		*10 - 178*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C8 PFOA	*84*		*26 - 159*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C9 PFNA	*91*		*26 - 165*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C6 PFDA	*82*		*26 - 161*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C7 PFUnA	*95*		*12 - 173*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C2-PFDoDA	*82*		*11 - 166*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C2 PFTeDA	*94*		*10 - 169*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C3 PFBS	*91*		*27 - 179*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C3 PFHxS	*97*		*24 - 171*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C8 PFOS	*111*		*41 - 154*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
d3-NMeFOSAA	*6*	**5-*	*10 - 178*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
d5-NEtFOSAA	*7*	**5-*	*10 - 193*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C8 FOSA	*89*		*14 - 163*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C4 PFBA	*84*		*28 - 153*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C5 PFPeA	*78*		*24 - 161*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
d7-N-MeFOSE-M	*82*		*10 - 179*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
d3-NMePFOSA	*77*		*10 - 175*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
d9-N-EtFOSE-M	*88*		*10 - 185*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
d5-NEtPFOSA	*86*		*10 - 180*	*12/09/22 10:19*	*12/12/22 20:55*	*1*
13C3 HFPO-DA	*85*		*10 - 169*	*12/09/22 10:19*	*12/12/22 20:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.0**		1.0	1.0	%			12/06/22 12:39	1

Client Sample ID: NOR-15-S-20-30

Lab Sample ID: 410-106099-12

Date Collected: 11/14/22 14:00
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.59**	**H cn**	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluoroheptanoic acid	**0.70**	**H cn**	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorooctanoic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorononanoic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorodecanoic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorotridecanoic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorotetradecanoic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorobutanesulfonic acid	<0.38	H cn	1.9	0.38	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorohexanesulfonic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorooctanesulfonic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
NEtFOSAA	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
NMeFOSAA	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1

Client Sample ID: NOR-15-S-20-30
Date Collected: 11/14/22 14:00
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-12
Matrix: Solid
Percent Solids: 96.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	<0.57	H cn	1.9	0.57	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluoropentanesulfonic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluoroheptanesulfonic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorononanesulfonic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorodecanesulfonic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorooctanesulfonamide	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorohexadecanoic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorooctadecanoic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorobutanoic acid	<0.76	H cn	1.9	0.76	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluoropentanoic acid	**0.37**	**J H cn**	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
NMeFOSE	<0.48	H cn	1.9	0.48	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
NMeFOSA	<0.48	H cn	1.9	0.48	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
NEtFOSE	<0.48	H cn	1.9	0.48	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
NEtFOSA	<0.48	H cn	1.9	0.48	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
HFPODA	<0.95	H cn	1.9	0.95	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
DONA	<0.19	H cn	2.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
9Cl-PF3ONS	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
11Cl-PF3OUdS	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluorododecanoic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
4:2 Fluorotelomer sulfonic acid	<0.57	H cn	1.9	0.57	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
Perfluoroundecanoic acid	<0.19	H cn	0.57	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
6:2 Fluorotelomer sulfonic acid	**1.6**	**J H cn**	1.9	0.57	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1
8:2 Fluorotelomer sulfonic acid	<0.57	H cn	2.9	0.57	ng/g	☼	01/16/23 18:00	01/20/23 04:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
M2-8:2 FTS	*112*	*cn*	*15 - 200*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
M2-6:2 FTS	*88*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C5 PFHxA	*68*	*cn*	*10 - 174*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C4 PFHpA	*89*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C8 PFOA	*77*	*cn*	*26 - 159*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C9 PFNA	*90*	*cn*	*26 - 165*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C6 PFDA	*103*	*cn*	*26 - 161*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C7 PFUnA	*90*	*cn*	*12 - 173*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C2-PFDoDA	*105*	*cn*	*11 - 166*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C2 PFTeDA	*93*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C3 PFBS	*102*	*cn*	*27 - 179*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C3 PFHxS	*87*	*cn*	*24 - 171*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C8 PFOS	*109*	*cn*	*41 - 154*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
d3-NMeFOSAA	*44*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
d5-NEtFOSAA	*45*	*cn*	*10 - 193*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C8 FOSA	*105*	*cn*	*14 - 163*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C4 PFBA	*81*	*cn*	*28 - 153*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
13C5 PFPeA	*76*	*cn*	*24 - 161*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
d7-N-MeFOSE-M	*107*	*cn*	*10 - 179*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
d3-NMePFOSA	*94*	*cn*	*10 - 175*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
d9-N-EtFOSE-M	*111*	*cn*	*10 - 185*	*01/16/23 18:00*	*01/20/23 04:20*	*1*
d5-NEtPFOSA	*94*	*cn*	*10 - 180*	*01/16/23 18:00*	*01/20/23 04:20*	*1*

Client Sample ID: NOR-15-S-20-30

Lab Sample ID: 410-106099-12

Date Collected: 11/14/22 14:00
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	87	cn	10 - 169	01/16/23 18:00	01/20/23 04:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.6		1.0	1.0	%			01/12/23 12:51	1

Client Sample ID: NOR-15-S-30-40

Lab Sample ID: 410-106099-13

Date Collected: 11/14/22 14:10
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.4

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	0.33	J H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluoroheptanoic acid	0.41	J H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorooctanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorononanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorodecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorotridecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorotetradecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorobutanesulfonic acid	<0.39	H cn	1.9	0.39	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorohexanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorooctanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
NEtFOSAA	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
NMeFOSAA	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
10:2 FTS	<0.58	H cn	1.9	0.58	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluoropentanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluoroheptanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorononanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorodecanesulfonic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorooctanesulfonamide	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorohexadecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorooctadecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorobutanoic acid	<0.78	H cn	1.9	0.78	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluoropentanoic acid	0.28	J H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
NMeFOSE	<0.48	H cn	1.9	0.48	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
NMeFOSA	<0.48	H cn	1.9	0.48	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
NEtFOSE	<0.48	H cn	1.9	0.48	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
NEtFOSA	<0.48	H cn	1.9	0.48	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
HFPODA	<0.97	H cn	1.9	0.97	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
DONA	<0.19	H cn	2.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
9Cl-PF3ONS	<0.19	H cn	1.9	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
11Cl-PF3OUdS	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluorododecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
4:2 Fluorotelomer sulfonic acid	<0.58	H cn	1.9	0.58	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
Perfluoroundecanoic acid	<0.19	H cn	0.58	0.19	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
6:2 Fluorotelomer sulfonic acid	0.83	J H cn	1.9	0.58	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1
8:2 Fluorotelomer sulfonic acid	<0.58	H cn	2.9	0.58	ng/g	☼	01/16/23 18:00	01/20/23 04:31	1

Client Sample ID: NOR-15-S-30-40

Lab Sample ID: 410-106099-13

Date Collected: 11/14/22 14:10
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.4

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*71*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
M2-8:2 FTS	*92*	*cn*	*15 - 200*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
M2-6:2 FTS	*69*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C5 PFHxA	*72*	*cn*	*10 - 174*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C4 PFHpA	*71*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C8 PFOA	*77*	*cn*	*26 - 159*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C9 PFNA	*95*	*cn*	*26 - 165*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C6 PFDA	*82*	*cn*	*26 - 161*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C7 PFUnA	*89*	*cn*	*12 - 173*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C2-PFDoDA	*87*	*cn*	*11 - 166*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C2 PFTeDA	*91*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C3 PFBS	*93*	*cn*	*27 - 179*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C3 PFHxS	*86*	*cn*	*24 - 171*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C8 PFOS	*111*	*cn*	*41 - 154*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
d3-NMeFOSAA	*23*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
d5-NEtFOSAA	*28*	*cn*	*10 - 193*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C8 FOSA	*84*	*cn*	*14 - 163*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C4 PFBA	*86*	*cn*	*28 - 153*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C5 PFPeA	*75*	*cn*	*24 - 161*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
d7-N-MeFOSE-M	*90*	*cn*	*10 - 179*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
d3-NMePFOSA	*83*	*cn*	*10 - 175*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
d9-N-EtFOSE-M	*81*	*cn*	*10 - 185*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
d5-NEtPFOSA	*86*	*cn*	*10 - 180*	*01/16/23 18:00*	*01/20/23 04:31*	*1*
13C3 HFPO-DA	*80*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 04:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.6**		1.0	1.0	%			01/12/23 12:51	1

Client Sample ID: NOR-15-S-40-50

Lab Sample ID: 410-106099-14

Date Collected: 11/14/22 14:20
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.44**	**J H cn**	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluoroheptanoic acid	**0.33**	**J H cn**	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorooctanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorononanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorodecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorotridecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorotetradecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorobutanesulfonic acid	<0.41	H cn	2.0	0.41	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorohexanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorooctanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
NEtFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
NMeFOSAA	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
10:2 FTS	<0.61	H cn	2.0	0.61	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluoropentanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluoroheptanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorononanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1

Client Sample ID: NOR-15-S-40-50
Date Collected: 11/14/22 14:20
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-14
Matrix: Solid
Percent Solids: 97.3

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorooctanesulfonamide	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorohexadecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorooctadecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorobutanoic acid	<0.81	H cn	2.0	0.81	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluoropentanoic acid	**0.23**	**J H cn**	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
NMeFOSE	<0.51	H cn	2.0	0.51	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
NMeFOSA	<0.51	H cn	2.0	0.51	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
NEtFOSE	<0.51	H cn	2.0	0.51	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
NEtFOSA	<0.51	H cn	2.0	0.51	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
HFPODA	<1.0	H cn	2.0	1.0	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
DONA	<0.20	H cn	3.1	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
9Cl-PF3ONS	<0.20	H cn	2.0	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
11Cl-PF3OUdS	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluorododecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
4:2 Fluorotelomer sulfonic acid	<0.61	H cn	2.0	0.61	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
Perfluoroundecanoic acid	<0.20	H cn	0.61	0.20	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
6:2 Fluorotelomer sulfonic acid	<0.61	H cn	2.0	0.61	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1
8:2 Fluorotelomer sulfonic acid	<0.61	H cn	3.1	0.61	ng/g	☼	01/16/23 18:00	01/20/23 04:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*111*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
M2-8:2 FTS	*102*	*cn*	*15 - 200*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
M2-6:2 FTS	*89*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C5 PFHxA	*74*	*cn*	*10 - 174*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C4 PFHpA	*87*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C8 PFOA	*88*	*cn*	*26 - 159*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C9 PFNA	*101*	*cn*	*26 - 165*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C6 PFDA	*91*	*cn*	*26 - 161*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C7 PFUnA	*98*	*cn*	*12 - 173*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C2-PFDoDA	*97*	*cn*	*11 - 166*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C2 PFTeDA	*89*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C3 PFBS	*96*	*cn*	*27 - 179*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C3 PFHxS	*104*	*cn*	*24 - 171*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C8 PFOS	*114*	*cn*	*41 - 154*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
d3-NMeFOSAA	*42*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
d5-NEtFOSAA	*45*	*cn*	*10 - 193*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C8 FOSA	*83*	*cn*	*14 - 163*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C4 PFBA	*85*	*cn*	*28 - 153*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C5 PFPeA	*73*	*cn*	*24 - 161*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
d7-N-MeFOSE-M	*95*	*cn*	*10 - 179*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
d3-NMePFOSA	*79*	*cn*	*10 - 175*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
d9-N-EtFOSE-M	*103*	*cn*	*10 - 185*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
d5-NEtPFOSA	*84*	*cn*	*10 - 180*	*01/16/23 18:00*	*01/20/23 04:42*	*1*
13C3 HFPO-DA	*97*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 04:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.7**		1.0	1.0	%			01/12/23 12:51	1

Client Sample ID: NOR-15-S-50-55

Date Collected: 11/14/22 14:30
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-15

Matrix: Solid
Percent Solids: 88.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.42**	**J H cn**	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluoroheptanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorooctanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorononanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorodecanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorotridecanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorotetradecanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorobutanesulfonic acid	<0.44	H cn	2.2	0.44	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorohexanesulfonic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorooctanesulfonic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
NEtFOSAA	<0.22	H cn	2.2	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
NMeFOSAA	<0.22	H cn	2.2	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
10:2 FTS	<0.67	H cn	2.2	0.67	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluoropentanesulfonic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluoroheptanesulfonic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorononanesulfonic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorodecanesulfonic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22	H cn	2.2	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorooctanesulfonamide	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorohexadecanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorooctadecanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorobutanoic acid	<0.89	H cn	2.2	0.89	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluoropentanoic acid	**0.48**	**J H cn**	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
NMeFOSE	<0.56	H cn	2.2	0.56	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
NMeFOSA	<0.56	H cn	2.2	0.56	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
NEtFOSE	<0.56	H cn	2.2	0.56	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
NEtFOSA	<0.56	H cn	2.2	0.56	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
HFPODA	<1.1	H cn	2.2	1.1	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
DONA	<0.22	H cn	3.3	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
9Cl-PF3ONS	<0.22	H cn	2.2	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
11Cl-PF3OUdS	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluorododecanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
4:2 Fluorotelomer sulfonic acid	<0.67	H cn	2.2	0.67	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
Perfluoroundecanoic acid	<0.22	H cn	0.67	0.22	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
6:2 Fluorotelomer sulfonic acid	<0.67	H cn	2.2	0.67	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1
8:2 Fluorotelomer sulfonic acid	<0.67	H cn	3.3	0.67	ng/g	☼	01/16/23 18:00	01/20/23 04:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
M2-8:2 FTS	*111*	*cn*	*15 - 200*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
M2-6:2 FTS	*92*	*cn*	*10 - 200*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
13C5 PFHxA	*91*	*cn*	*10 - 174*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
13C4 PFHpA	*92*	*cn*	*10 - 178*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
13C8 PFOA	*96*	*cn*	*26 - 159*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
13C9 PFNA	*100*	*cn*	*26 - 165*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
13C6 PFDA	*107*	*cn*	*26 - 161*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
13C7 PFUnA	*109*	*cn*	*12 - 173*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
13C2-PFDoDA	*105*	*cn*	*11 - 166*	*01/16/23 18:00*	*01/20/23 04:53*	*1*
13C2 PFTeDA	*110*	*cn*	*10 - 169*	*01/16/23 18:00*	*01/20/23 04:53*	*1*

Client Sample ID: NOR-15-S-50-55

Lab Sample ID: 410-106099-15

Date Collected: 11/14/22 14:30
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 88.2

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	98	cn	27 - 179	01/16/23 18:00	01/20/23 04:53	1
13C3 PFHxS	101	cn	24 - 171	01/16/23 18:00	01/20/23 04:53	1
13C8 PFOS	116	cn	41 - 154	01/16/23 18:00	01/20/23 04:53	1
d3-NMeFOSAA	76	cn	10 - 178	01/16/23 18:00	01/20/23 04:53	1
d5-NEtFOSAA	85	cn	10 - 193	01/16/23 18:00	01/20/23 04:53	1
13C8 FOSA	96	cn	14 - 163	01/16/23 18:00	01/20/23 04:53	1
13C4 PFBA	100	cn	28 - 153	01/16/23 18:00	01/20/23 04:53	1
13C5 PFPeA	87	cn	24 - 161	01/16/23 18:00	01/20/23 04:53	1
d7-N-MeFOSE-M	102	cn	10 - 179	01/16/23 18:00	01/20/23 04:53	1
d3-NMePFOSA	91	cn	10 - 175	01/16/23 18:00	01/20/23 04:53	1
d9-N-EtFOSE-M	102	cn	10 - 185	01/16/23 18:00	01/20/23 04:53	1
d5-NEtPFOSA	93	cn	10 - 180	01/16/23 18:00	01/20/23 04:53	1
13C3 HFPO-DA	97	cn	10 - 169	01/16/23 18:00	01/20/23 04:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.8		1.0	1.0	%			01/12/23 12:51	1

Client Sample ID: EB-111422

Lab Sample ID: 410-106099-16

Date Collected: 11/14/22 14:50
Matrix: Water
Date Received: 11/17/22 10:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.78		1.7	0.78	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluoroheptanoic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorooctanoic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorononanoic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorodecanoic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorotridecanoic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorotetradecanoic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorobutanesulfonic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorohexanesulfonic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorooctanesulfonic acid	<0.86		1.7	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1
NEtFOSAA	<0.43		2.6	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
NMeFOSAA	<0.52		1.7	0.52	ng/L		11/27/22 15:52	12/06/22 08:33	1
10:2 FTS	<0.86		4.3	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluoropentanesulfonic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluoroheptanesulfonic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorononanesulfonic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorodecanesulfonic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		2.6	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorooctanesulfonamide	<0.61		1.7	0.61	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorohexadecanoic acid	<0.86		2.6	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorooctadecanoic acid	<0.86		2.6	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorobutanoic acid	<1.7		4.3	1.7	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluoropentanoic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
NMeFOSE	<0.86		2.6	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1
NMeFOSA	<0.86		2.6	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1

Client Sample ID: EB-111422

Lab Sample ID: 410-106099-16

Date Collected: 11/14/22 14:50

Matrix: Water

Date Received: 11/17/22 10:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	<0.86		2.6	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1
NEtFOSA	<0.86		4.3	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1
HFPODA	<0.86		2.6	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1
DONA	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
9Cl-PF3ONS	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
11Cl-PF3OUdS	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluorododecanoic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
4:2 Fluorotelomer sulfonic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
Perfluoroundecanoic acid	<0.43		1.7	0.43	ng/L		11/27/22 15:52	12/06/22 08:33	1
6:2 Fluorotelomer sulfonic acid	<3.6		4.3	3.6	ng/L		11/27/22 15:52	12/06/22 08:33	1
8:2 Fluorotelomer sulfonic acid	<0.86		2.6	0.86	ng/L		11/27/22 15:52	12/06/22 08:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*		*10 - 200*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
M2-8:2 FTS	*102*		*33 - 200*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
M2-6:2 FTS	*89*		*17 - 200*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C5 PFHxA	*90*		*24 - 179*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C4 PFHpA	*97*		*31 - 182*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C8 PFOA	*93*		*48 - 162*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C9 PFNA	*105*		*51 - 167*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C6 PFDA	*99*		*49 - 163*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C7 PFUnA	*95*		*34 - 174*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C2-PFDoDA	*103*		*17 - 176*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C2 PFTeDA	*109*		*10 - 179*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C3 PFBS	*104*		*16 - 200*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C3 PFHxS	*96*		*28 - 188*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C8 PFOS	*106*		*51 - 159*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
d3-NMeFOSAA	*91*		*31 - 174*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
d5-NEtFOSAA	*94*		*29 - 195*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C8 FOSA	*94*		*10 - 168*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C4 PFBA	*100*		*42 - 165*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C5 PFPeA	*99*		*38 - 187*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
d7-N-MeFOSE-M	*92*		*10 - 178*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
d3-NMePFOSA	*86*		*10 - 155*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
d9-N-EtFOSE-M	*89*		*10 - 177*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
d5-NEtPFOSA	*88*		*10 - 159*	*11/27/22 15:52*	*12/06/22 08:33*	*1*
13C3 HFPO-DA	*93*		*17 - 185*	*11/27/22 15:52*	*12/06/22 08:33*	*1*

Client Sample ID: RW6-73-GW-76

Lab Sample ID: 410-106099-17

Date Collected: 11/15/22 09:10

Matrix: Water

Date Received: 11/17/22 10:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**260**		1.8	0.82	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluoroheptanoic acid	**240**		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorooctanoic acid	**130**		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorononanoic acid	**42**		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorodecanoic acid	**24**		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorotridecanoic acid	<0.46		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorotetradecanoic acid	<0.46		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1

Client Sample ID: RW6-73-GW-76
Date Collected: 11/15/22 09:10
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-17
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid	**1.0**	**J**	1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorohexanesulfonic acid	**14**		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorooctanesulfonic acid	**56**		1.8	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1
NEtFOSAA	<0.46		2.7	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
NMeFOSAA	<0.55		1.8	0.55	ng/L		11/28/22 07:14	12/07/22 16:37	1
10:2 FTS	<0.91		4.6	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluoropentanesulfonic acid	**0.59**	**J**	1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluoroheptanesulfonic acid	**0.71**	**J**	1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorononanesulfonic acid	<0.46		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorodecanesulfonic acid	<0.46		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.46		2.7	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorooctanesulfonamide	<0.64		1.8	0.64	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorohexadecanoic acid	<0.91		2.7	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorooctadecanoic acid	<0.91		2.7	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorobutanoic acid	**120**		4.6	1.8	ng/L		11/28/22 07:14	12/07/22 16:37	1
NMeFOSE	<0.91		2.7	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1
NMeFOSA	<0.91		2.7	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1
NEtFOSE	<0.91		2.7	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1
NEtFOSA	<0.91		4.6	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1
HFPODA	<0.91		2.7	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1
DONA	<0.46		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
9Cl-PF3ONS	<0.46		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
11Cl-PF3OUdS	<0.46		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluorododecanoic acid	**0.79**	**J**	1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
4:2 Fluorotelomer sulfonic acid	**0.75**	**J**	1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
Perfluoroundecanoic acid	**3.5**		1.8	0.46	ng/L		11/28/22 07:14	12/07/22 16:37	1
8:2 Fluorotelomer sulfonic acid	**120**		2.7	0.91	ng/L		11/28/22 07:14	12/07/22 16:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*269*	*5+ cn	*10 - 200*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
M2-8:2 FTS	*130*		*33 - 200*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
M2-6:2 FTS	*174*		*17 - 200*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C5 PFHxA	*139*		*24 - 179*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C4 PFHpA	*152*		*31 - 182*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C8 PFOA	*123*		*48 - 162*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C9 PFNA	*129*		*51 - 167*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C6 PFDA	*111*		*49 - 163*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C7 PFUnA	*114*		*34 - 174*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C2-PFDoDA	*95*		*17 - 176*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C2 PFTeDA	*96*		*10 - 179*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C3 PFBS	*145*		*16 - 200*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C3 PFHxS	*153*		*28 - 188*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C8 PFOS	*125*		*51 - 159*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
d3-NMeFOSAA	*112*		*31 - 174*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
d5-NEtFOSAA	*118*		*29 - 195*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C8 FOSA	*94*		*10 - 168*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C4 PFBA	*125*		*42 - 165*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
13C5 PFPeA	*112*		*38 - 187*	*11/28/22 07:14*	*12/07/22 16:37*	*1*
d7-N-MeFOSE-M	*81*		*10 - 178*	*11/28/22 07:14*	*12/07/22 16:37*	*1*

Client Sample ID: RW6-73-GW-76

Lab Sample ID: 410-106099-17

Date Collected: 11/15/22 09:10

Matrix: Water

Date Received: 11/17/22 10:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	59		10 - 155	11/28/22 07:14	12/07/22 16:37	1
d9-N-EtFOSE-M	78		10 - 177	11/28/22 07:14	12/07/22 16:37	1
d5-NEtPFOSA	66		10 - 159	11/28/22 07:14	12/07/22 16:37	1
13C3 HFPO-DA	140		17 - 185	11/28/22 07:14	12/07/22 16:37	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid	**480**		18	4.6	ng/L		11/28/22 07:14	12/04/22 06:03	10
6:2 Fluorotelomer sulfonic acid	**2200**		46	38	ng/L		11/28/22 07:14	12/04/22 06:03	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	137		17 - 200	11/28/22 07:14	12/04/22 06:03	10
13C5 PFPeA	143		38 - 187	11/28/22 07:14	12/04/22 06:03	10

Client Sample ID: FB-111522

Lab Sample ID: 410-106099-18

Date Collected: 11/15/22 10:00

Matrix: Water

Date Received: 11/17/22 10:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.79		1.8	0.79	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluoroheptanoic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorooctanoic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorononanoic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorodecanoic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorotridecanoic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorotetradecanoic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorobutanesulfonic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorohexanesulfonic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorooctanesulfonic acid	<0.88		1.8	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1
NEtFOSAA	<0.44		2.6	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
NMeFOSAA	<0.53		1.8	0.53	ng/L		11/28/22 07:14	12/04/22 06:14	1
10:2 FTS	<0.88		4.4	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluoropentanesulfonic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluoroheptanesulfonic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorononanesulfonic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorodecanesulfonic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		2.6	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorooctanesulfonamide	<0.62		1.8	0.62	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorohexadecanoic acid	<0.88		2.6	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorooctadecanoic acid	<0.88		2.6	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorobutanoic acid	<1.8		4.4	1.8	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluoropentanoic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
NMeFOSE	<0.88		2.6	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1
NMeFOSA	<0.88		2.6	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1
NEtFOSE	<0.88		2.6	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1
NEtFOSA	<0.88		4.4	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1
HFPODA	<0.88		2.6	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1
DONA	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
9Cl-PF3ONS	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1

Client Sample ID: FB-111522

Date Collected: 11/15/22 10:00
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-18

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluorododecanoic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
4:2 Fluorotelomer sulfonic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
Perfluoroundecanoic acid	<0.44		1.8	0.44	ng/L		11/28/22 07:14	12/04/22 06:14	1
6:2 Fluorotelomer sulfonic acid	<3.7		4.4	3.7	ng/L		11/28/22 07:14	12/04/22 06:14	1
8:2 Fluorotelomer sulfonic acid	<0.88		2.6	0.88	ng/L		11/28/22 07:14	12/04/22 06:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*118*		*10 - 200*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
M2-8:2 FTS	*121*		*33 - 200*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
M2-6:2 FTS	*125*		*17 - 200*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C5 PFHxA	*134*		*24 - 179*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C4 PFHpA	*132*		*31 - 182*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C8 PFOA	*136*		*48 - 162*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C9 PFNA	*139*		*51 - 167*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C6 PFDA	*131*		*49 - 163*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C7 PFUnA	*128*		*34 - 174*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C2-PFDoDA	*112*		*17 - 176*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C2 PFTeDA	*95*		*10 - 179*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C3 PFBS	*136*		*16 - 200*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C3 PFHxS	*142*		*28 - 188*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C8 PFOS	*147*		*51 - 159*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
d3-NMeFOSAA	*115*		*31 - 174*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
d5-NEtFOSAA	*120*		*29 - 195*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C8 FOSA	*118*		*10 - 168*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C4 PFBA	*135*		*42 - 165*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C5 PFPeA	*145*		*38 - 187*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
d7-N-MeFOSE-M	*100*		*10 - 178*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
d3-NMePFOSA	*86*		*10 - 155*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
d9-N-EtFOSE-M	*91*		*10 - 177*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
d5-NEtPFOSA	*87*		*10 - 159*	*11/28/22 07:14*	*12/04/22 06:14*	*1*
13C3 HFPO-DA	*115*		*17 - 185*	*11/28/22 07:14*	*12/04/22 06:14*	*1*

Client Sample ID: IES-WFCT-1122

Date Collected: 11/16/22 07:45
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-19

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.74		1.6	0.74	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluoroheptanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorooctanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorononanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorodecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorotridecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorotetradecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorobutanesulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorohexanesulfonic acid	**9.5**		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorooctanesulfonic acid	<0.82		1.6	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1
NEtFOSAA	<0.41		2.5	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
NMeFOSAA	<0.49		1.6	0.49	ng/L		11/29/22 07:29	12/08/22 21:03	1

Client Sample ID: IES-WFCT-1122
Date Collected: 11/16/22 07:45
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-19
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	<0.82		4.1	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluoropentanesulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluoroheptanesulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorononanesulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorodecanesulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.41		2.5	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorooctanesulfonamide	**0.63**	**J**	1.6	0.57	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorohexadecanoic acid	<0.82		2.5	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorooctadecanoic acid	<0.82		2.5	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorobutanoic acid	<1.6		4.1	1.6	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluoropentanoic acid	**0.42**	**J**	1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
NMeFOSE	<0.82		2.5	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1
NMeFOSA	<0.82		2.5	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1
NEtFOSE	<0.82		2.5	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1
NEtFOSA	<0.82		4.1	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1
HFPODA	<0.82		2.5	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1
DONA	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
9Cl-PF3ONS	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
11Cl-PF3OUdS	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluorododecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
4:2 Fluorotelomer sulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
Perfluoroundecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:03	1
6:2 Fluorotelomer sulfonic acid	<3.4		4.1	3.4	ng/L		11/29/22 07:29	12/08/22 21:03	1
8:2 Fluorotelomer sulfonic acid	<0.82		2.5	0.82	ng/L		11/29/22 07:29	12/08/22 21:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*132*		*10 - 200*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
M2-8:2 FTS	*117*		*33 - 200*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
M2-6:2 FTS	*119*		*17 - 200*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C5 PFHxA	*106*		*24 - 179*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C4 PFHpA	*105*		*31 - 182*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C8 PFOA	*107*		*48 - 162*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C9 PFNA	*126*		*51 - 167*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C6 PFDA	*102*		*49 - 163*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C7 PFUnA	*102*		*34 - 174*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C2-PFDoDA	*100*		*17 - 176*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C2 PFTeDA	*102*		*10 - 179*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C3 PFBS	*117*		*16 - 200*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C3 PFHxS	*111*		*28 - 188*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C8 PFOS	*117*		*51 - 159*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
d3-NMeFOSAA	*92*		*31 - 174*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
d5-NEtFOSAA	*99*		*29 - 195*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C8 FOSA	*92*		*10 - 168*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C4 PFBA	*110*		*42 - 165*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
13C5 PFPeA	*114*		*38 - 187*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
d7-N-MeFOSE-M	*84*		*10 - 178*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
d3-NMePFOSA	*68*		*10 - 155*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
d9-N-EtFOSE-M	*101*		*10 - 177*	*11/29/22 07:29*	*12/08/22 21:03*	*1*
d5-NEtPFOSA	*72*		*10 - 159*	*11/29/22 07:29*	*12/08/22 21:03*	*1*

Client Sample ID: IES-WFCT-1122

Lab Sample ID: 410-106099-19

Date Collected: 11/16/22 07:45

Matrix: Water

Date Received: 11/17/22 10:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		17 - 185	11/29/22 07:29	12/08/22 21:03	1

Client Sample ID: IES-WFCT-1122 DUP

Lab Sample ID: 410-106099-20

Date Collected: 11/16/22 07:45

Matrix: Water

Date Received: 11/17/22 10:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.73		1.6	0.73	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluoroheptanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorooctanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorononanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorodecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorotridecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorotetradecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorobutanesulfonic acid	**0.41**	**J**	1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorohexanesulfonic acid	**9.4**		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorooctanesulfonic acid	<0.81		1.6	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1
NEtFOSAA	<0.41		2.4	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
NMeFOSAA	<0.49		1.6	0.49	ng/L		11/29/22 07:29	12/08/22 21:14	1
10:2 FTS	<0.81		4.1	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluoropentanesulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluoroheptanesulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorononanesulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorodecanesulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.41		2.4	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorooctanesulfonamide	**0.64**	**J**	1.6	0.57	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorohexadecanoic acid	<0.81		2.4	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorooctadecanoic acid	<0.81		2.4	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorobutanoic acid	<1.6		4.1	1.6	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluoropentanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
NMeFOSE	<0.81		2.4	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1
NMeFOSA	<0.81		2.4	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1
NEtFOSE	<0.81		2.4	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1
NEtFOSA	<0.81		4.1	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1
HFPODA	<0.81		2.4	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1
DONA	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
9Cl-PF3ONS	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
11Cl-PF3OUdS	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluorododecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
4:2 Fluorotelomer sulfonic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
Perfluoroundecanoic acid	<0.41		1.6	0.41	ng/L		11/29/22 07:29	12/08/22 21:14	1
6:2 Fluorotelomer sulfonic acid	<3.4		4.1	3.4	ng/L		11/29/22 07:29	12/08/22 21:14	1
8:2 Fluorotelomer sulfonic acid	<0.81		2.4	0.81	ng/L		11/29/22 07:29	12/08/22 21:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	115		10 - 200	11/29/22 07:29	12/08/22 21:14	1
M2-8:2 FTS	113		33 - 200	11/29/22 07:29	12/08/22 21:14	1
M2-6:2 FTS	112		17 - 200	11/29/22 07:29	12/08/22 21:14	1
13C5 PFHxA	95		24 - 179	11/29/22 07:29	12/08/22 21:14	1

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

Job ID: 410-106099-1

Client Sample ID: IES-WFCT-1122 DUP
Date Collected: 11/16/22 07:45
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-20
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	96		31 - 182	11/29/22 07:29	12/08/22 21:14	1
13C8 PFOA	93		48 - 162	11/29/22 07:29	12/08/22 21:14	1
13C9 PFNA	110		51 - 167	11/29/22 07:29	12/08/22 21:14	1
13C6 PFDA	93		49 - 163	11/29/22 07:29	12/08/22 21:14	1
13C7 PFUnA	82		34 - 174	11/29/22 07:29	12/08/22 21:14	1
13C2-PFDoDA	85		17 - 176	11/29/22 07:29	12/08/22 21:14	1
13C2 PFTeDA	79		10 - 179	11/29/22 07:29	12/08/22 21:14	1
13C3 PFBS	110		16 - 200	11/29/22 07:29	12/08/22 21:14	1
13C3 PFHxS	94		28 - 188	11/29/22 07:29	12/08/22 21:14	1
13C8 PFOS	101		51 - 159	11/29/22 07:29	12/08/22 21:14	1
d3-NMeFOSAA	86		31 - 174	11/29/22 07:29	12/08/22 21:14	1
d5-NEtFOSAA	85		29 - 195	11/29/22 07:29	12/08/22 21:14	1
13C8 FOSA	82		10 - 168	11/29/22 07:29	12/08/22 21:14	1
13C4 PFBA	107		42 - 165	11/29/22 07:29	12/08/22 21:14	1
13C5 PFPeA	115		38 - 187	11/29/22 07:29	12/08/22 21:14	1
d7-N-MeFOSE-M	73		10 - 178	11/29/22 07:29	12/08/22 21:14	1
d3-NMePFOSA	61		10 - 155	11/29/22 07:29	12/08/22 21:14	1
d9-N-EtFOSE-M	68		10 - 177	11/29/22 07:29	12/08/22 21:14	1
d5-NEtPFOSA	57		10 - 159	11/29/22 07:29	12/08/22 21:14	1
13C3 HFPO-DA	80		17 - 185	11/29/22 07:29	12/08/22 21:14	1

Isotope Dilution Summary

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

Job ID: 410-106099-1

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 (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
410-106099-1	NOR-17-S-00-01	107	114	105	112	113	107	122	113
410-106099-5	NOR-14-S-20-30	82 cn	91 cn	91 cn	71 cn	86 cn	93 cn	104 cn	88 cn
410-106099-5 MS	NOR-14-S-20-30	83	90	83	80	89	83	88	85
410-106099-5 MSD	NOR-14-S-20-30	74	88	75	66	71	72	83	87
410-106099-6	NOR-14-S-30-40	84 cn	100 cn	85 cn	84 cn	81 cn	84 cn	96 cn	77 cn
410-106099-7	NOR-14-S-40-50	84 cn	79 cn	82 cn	100 cn	101 cn	96 cn	94 cn	92 cn
410-106099-8	NOR-15-S-04-06	71	79	69	71	73	75	81	75
410-106099-8 MS	NOR-15-S-04-06	64	89	68	69	72	70	85	77
410-106099-8 MSD	NOR-15-S-04-06	65	81	67	64	68	70	82	82
410-106099-9	NOR-15-S-06-08	81	98	88	82	76	79	84	82
410-106099-10	NOR-15-S-08-10	91	95	94	91	87	92	90	86
410-106099-11	NOR-15-S-15-20	91	102	94	87	91	84	91	82
410-106099-12	NOR-15-S-20-30	88 cn	112 cn	88 cn	68 cn	89 cn	77 cn	90 cn	103 cn
410-106099-13	NOR-15-S-30-40	71 cn	92 cn	69 cn	72 cn	71 cn	77 cn	95 cn	82 cn
410-106099-14	NOR-15-S-40-50	111 cn	102 cn	89 cn	74 cn	87 cn	88 cn	101 cn	91 cn
410-106099-15	NOR-15-S-50-55	90 cn	111 cn	92 cn	91 cn	92 cn	96 cn	100 cn	107 cn
LCS 410-320180/2-B	Lab Control Sample	104	109	112	113	117	115	121	119
LCS 410-325443/3-B	Lab Control Sample	107	94	106	102	99	104	103	96
LCS 410-336001/2-B	Lab Control Sample	90	92	104	91	96	97	107	95
MB 410-320180/1-B	Method Blank	114	108	108	121	124	119	127	115
MB 410-325443/1-B	Method Blank	111	103	110	106	107	105	116	91
MB 410-336001/1-B	Method Blank	97	108	102	82	90	87	103	92

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
410-106099-1	NOR-17-S-00-01	120	122	134	115	118	124	85	102
410-106099-5	NOR-14-S-20-30	99 cn	101 cn	95 cn	98 cn	100 cn	109 cn	26 cn	28 cn
410-106099-5 MS	NOR-14-S-20-30	90	90	91	92	104	105	30	33
410-106099-5 MSD	NOR-14-S-20-30	88	91	88	82	87	94	30	33
410-106099-6	NOR-14-S-30-40	94 cn	88 cn	89 cn	90 cn	96 cn	116 cn	21 cn	29 cn
410-106099-7	NOR-14-S-40-50	88 cn	86 cn	78 cn	89 cn	92 cn	101 cn	32 cn	38 cn
410-106099-8	NOR-15-S-04-06	76	87	92	107	112	112	5 *5- cn	7 *5- cn
410-106099-8 MS	NOR-15-S-04-06	86	86	96	107	102	115	8 *5-	13
410-106099-8 MSD	NOR-15-S-04-06	84	88	98	108	100	108	7 *5-	12
410-106099-9	NOR-15-S-06-08	93	85	93	89	85	97	7 *5-	10
410-106099-10	NOR-15-S-08-10	94	80	96	88	94	104	27	33
410-106099-11	NOR-15-S-15-20	95	82	94	91	97	111	6 *5-	7 *5-
410-106099-12	NOR-15-S-20-30	90 cn	105 cn	93 cn	102 cn	87 cn	109 cn	44 cn	45 cn
410-106099-13	NOR-15-S-30-40	89 cn	87 cn	91 cn	93 cn	86 cn	111 cn	23 cn	28 cn
410-106099-14	NOR-15-S-40-50	98 cn	97 cn	89 cn	96 cn	104 cn	114 cn	42 cn	45 cn
410-106099-15	NOR-15-S-50-55	109 cn	105 cn	110 cn	98 cn	101 cn	116 cn	76 cn	85 cn
LCS 410-320180/2-B	Lab Control Sample	110	126	138	114	114	124	113	111
LCS 410-325443/3-B	Lab Control Sample	101	85	104	94	100	110	86	92
LCS 410-336001/2-B	Lab Control Sample	98	98	91	100	104	116	75	80
MB 410-320180/1-B	Method Blank	118	125	139	116	123	128	108	109
MB 410-325443/1-B	Method Blank	98	88	96	101	107	118	77	88
MB 410-336001/1-B	Method Blank	92	100	96	96	103	109	81	82

Isotope Dilution Summary

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

Job ID: 410-106099-1

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	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
410-106099-1	NOR-17-S-00-01	106	112	120	107	98	119	99	117
410-106099-5	NOR-14-S-20-30	88 cn	95 cn	85 cn	95 cn	94 cn	95 cn	90 cn	91 cn
410-106099-5 MS	NOR-14-S-20-30	81	85	75	86	84	88	79	89
410-106099-5 MSD	NOR-14-S-20-30	76	71	65	80	73	83	67	74
410-106099-6	NOR-14-S-30-40	87 cn	84 cn	74 cn	97 cn	78 cn	85 cn	82 cn	96 cn
410-106099-7	NOR-14-S-40-50	83 cn	95 cn	85 cn	81 cn	80 cn	84 cn	78 cn	98 cn
410-106099-8	NOR-15-S-04-06	112	66	67	122	107	125	108	84
410-106099-8 MS	NOR-15-S-04-06	110	67	73	110	97	118	99	81
410-106099-8 MSD	NOR-15-S-04-06	98	65	68	117	100	109	98	80
410-106099-9	NOR-15-S-06-08	88	76	80	88	77	93	88	89
410-106099-10	NOR-15-S-08-10	89	86	82	85	78	93	84	83
410-106099-11	NOR-15-S-15-20	89	84	78	82	77	88	86	85
410-106099-12	NOR-15-S-20-30	105 cn	81 cn	76 cn	107 cn	94 cn	111 cn	94 cn	87 cn
410-106099-13	NOR-15-S-30-40	84 cn	86 cn	75 cn	90 cn	83 cn	81 cn	86 cn	80 cn
410-106099-14	NOR-15-S-40-50	83 cn	85 cn	73 cn	95 cn	79 cn	103 cn	84 cn	97 cn
410-106099-15	NOR-15-S-50-55	96 cn	100 cn	87 cn	102 cn	91 cn	102 cn	93 cn	97 cn
LCS 410-320180/2-B	Lab Control Sample	107	115	120	113	83	114	85	119
LCS 410-325443/3-B	Lab Control Sample	97	98	97	87	83	98	93	99
LCS 410-336001/2-B	Lab Control Sample	79	88	82	92	79	91	84	99
MB 410-320180/1-B	Method Blank	111	110	113	120	87	126	88	123
MB 410-325443/1-B	Method Blank	90	102	98	89	75	97	82	100
MB 410-336001/1-B	Method Blank	81	82	75	87	76	87	76	83

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

Isotope Dilution Summary

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

Job ID: 410-106099-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (33-200)	M262FTS (17-200)	13C5PHA (24-179)	C4PFHA (31-182)	C8PFOA (48-162)	C9PFNA (51-167)	C6PFDA (49-163)
410-106099-16	EB-111422	90	102	89	90	97	93	105	99
410-106099-17 - DL	RW6-73-GW-76			137					
410-106099-17	RW6-73-GW-76	269 *5+ cn	130	174	139	152	123	129	111
410-106099-18	FB-111522	118	121	125	134	132	136	139	131
410-106099-19	IES-WFCT-1122	132	117	119	106	105	107	126	102
410-106099-20	IES-WFCT-1122 DUP	115	113	112	95	96	93	110	93
LCS 410-320990/2-A	Lab Control Sample	97	88	98	95	100	94	99	94
LCS 410-321038/3-A	Lab Control Sample	115	129	119	127	125	129	138	131
LCS 410-321492/3-A	Lab Control Sample	107	99	112	89	99	107	113	99
LCSD 410-320990/3-A	Lab Control Sample Dup	96	100	101	101	105	101	98	91
LCSD 410-321038/4-A	Lab Control Sample Dup	117	100	111	126	122	124	129	108
LCSD 410-321492/4-A	Lab Control Sample Dup	100	116	107	102	100	104	125	111
MB 410-320990/1-A	Method Blank	95	91	86	94	101	91	99	86
MB 410-321038/1-A	Method Blank	108	112	109	114	114	113	128	120
MB 410-321492/1-A	Method Blank	105	100	111	94	91	93	112	96

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-106099-16	EB-111422	95	103	109	104	96	106	91	94
410-106099-17 - DL	RW6-73-GW-76								
410-106099-17	RW6-73-GW-76	114	95	96	145	153	125	112	118
410-106099-18	FB-111522	128	112	95	136	142	147	115	120
410-106099-19	IES-WFCT-1122	102	100	102	117	111	117	92	99
410-106099-20	IES-WFCT-1122 DUP	82	85	79	110	94	101	86	85
LCS 410-320990/2-A	Lab Control Sample	89	85	87	93	102	103	88	89
LCS 410-321038/3-A	Lab Control Sample	134	117	105	132	134	145	121	127
LCS 410-321492/3-A	Lab Control Sample	97	97	90	104	97	106	92	92
LCSD 410-320990/3-A	Lab Control Sample Dup	91	83	96	105	103	100	98	90
LCSD 410-321038/4-A	Lab Control Sample Dup	97	86	71	140	128	128	97	96
LCSD 410-321492/4-A	Lab Control Sample Dup	102	109	104	108	96	109	101	96
MB 410-320990/1-A	Method Blank	86	84	82	90	96	98	87	87
MB 410-321038/1-A	Method Blank	125	106	94	125	120	132	110	117
MB 410-321492/1-A	Method Blank	106	94	100	103	92	106	91	98

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
410-106099-16	EB-111422	94	100	99	92	86	89	88	93
410-106099-17 - DL	RW6-73-GW-76			143					
410-106099-17	RW6-73-GW-76	94	125	112	81	59	78	66	140
410-106099-18	FB-111522	118	135	145	100	86	91	87	115
410-106099-19	IES-WFCT-1122	92	110	114	84	68	101	72	96
410-106099-20	IES-WFCT-1122 DUP	82	107	115	73	61	68	57	80
LCS 410-320990/2-A	Lab Control Sample	84	99	100	77	66	71	70	95
LCS 410-321038/3-A	Lab Control Sample	126	133	138	113	95	103	95	110
LCS 410-321492/3-A	Lab Control Sample	82	104	111	86	62	86	62	94
LCSD 410-320990/3-A	Lab Control Sample Dup	84	100	106	87	75	87	75	100
LCSD 410-321038/4-A	Lab Control Sample Dup	98	132	138	93	85	88	93	103
LCSD 410-321492/4-A	Lab Control Sample Dup	89	111	105	77	40	76	38	96
MB 410-320990/1-A	Method Blank	78	91	94	67	60	61	59	94

Isotope Dilution Summary

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

Job ID: 410-106099-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
MB 410-321038/1-A	Method Blank	111	119	133	93	87	92	92	100
MB 410-321492/1-A	Method Blank	83	100	101	82	52	85	53	88

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 410-320180/1-B
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
10:2 FTS	<0.60		2.0	0.60	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
NMeFOSE	<0.50		2.0	0.50	ng/g		11/22/22 09:33	11/23/22 13:27	1
NMeFOSA	<0.50		2.0	0.50	ng/g		11/22/22 09:33	11/23/22 13:27	1
NEtFOSE	<0.50		2.0	0.50	ng/g		11/22/22 09:33	11/23/22 13:27	1
NEtFOSA	<0.50		2.0	0.50	ng/g		11/22/22 09:33	11/23/22 13:27	1
HFPODA	<1.0		2.0	1.0	ng/g		11/22/22 09:33	11/23/22 13:27	1
DONA	<0.20		3.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/22/22 09:33	11/23/22 13:27	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		11/22/22 09:33	11/23/22 13:27	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		11/22/22 09:33	11/23/22 13:27	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		11/22/22 09:33	11/23/22 13:27	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*114*		*10 - 200*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
M2-8:2 FTS	*108*		*15 - 200*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
M2-6:2 FTS	*108*		*10 - 200*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C5 PFHxA	*121*		*10 - 174*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C4 PFHpA	*124*		*10 - 178*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C8 PFOA	*119*		*26 - 159*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C9 PFNA	*127*		*26 - 165*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C6 PFDA	*115*		*26 - 161*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C7 PFUnA	*118*		*12 - 173*	*11/22/22 09:33*	*11/23/22 13:27*	*1*
13C2-PFDoDA	*125*		*11 - 166*	*11/22/22 09:33*	*11/23/22 13:27*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-320180/1-B
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320180

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	139		10 - 169	11/22/22 09:33	11/23/22 13:27	1
13C3 PFBS	116		27 - 179	11/22/22 09:33	11/23/22 13:27	1
13C3 PFHxS	123		24 - 171	11/22/22 09:33	11/23/22 13:27	1
13C8 PFOS	128		41 - 154	11/22/22 09:33	11/23/22 13:27	1
d3-NMeFOSAA	108		10 - 178	11/22/22 09:33	11/23/22 13:27	1
d5-NEtFOSAA	109		10 - 193	11/22/22 09:33	11/23/22 13:27	1
13C8 FOSA	111		14 - 163	11/22/22 09:33	11/23/22 13:27	1
13C4 PFBA	110		28 - 153	11/22/22 09:33	11/23/22 13:27	1
13C5 PFPeA	113		24 - 161	11/22/22 09:33	11/23/22 13:27	1
d7-N-MeFOSE-M	120		10 - 179	11/22/22 09:33	11/23/22 13:27	1
d3-NMePFOSA	87		10 - 175	11/22/22 09:33	11/23/22 13:27	1
d9-N-EtFOSE-M	126		10 - 185	11/22/22 09:33	11/23/22 13:27	1
d5-NEtPFOSA	88		10 - 180	11/22/22 09:33	11/23/22 13:27	1
13C3 HFPO-DA	123		10 - 169	11/22/22 09:33	11/23/22 13:27	1

Lab Sample ID: LCS 410-320180/2-B
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	21.9		ng/g		88	59 - 132
Perfluoroheptanoic acid	25.0	20.9		ng/g		84	59 - 137
Perfluorooctanoic acid	25.0	20.0		ng/g		80	59 - 131
Perfluorononanoic acid	25.0	21.5		ng/g		86	61 - 134
Perfluorodecanoic acid	25.0	21.6		ng/g		87	56 - 133
Perfluorotridecanoic acid	25.0	20.0		ng/g		80	53 - 143
Perfluorotetradecanoic acid	25.0	20.3		ng/g		81	62 - 134
Perfluorobutanesulfonic acid	22.1	20.2		ng/g		91	54 - 130
Perfluorohexanesulfonic acid	22.8	19.9		ng/g		87	59 - 129
Perfluorooctanesulfonic acid	23.1	19.4		ng/g		84	61 - 126
NEtFOSAA	25.0	21.4		ng/g		86	57 - 127
NMeFOSAA	25.0	20.0		ng/g		80	60 - 134
10:2 FTS	24.1	20.0		ng/g		83	46 - 143
Perfluoropentanesulfonic acid	23.5	19.8		ng/g		84	57 - 133
Perfluoroheptanesulfonic acid	23.8	19.3		ng/g		81	59 - 132
Perfluorononanesulfonic acid	24.0	19.4		ng/g		81	60 - 132
Perfluorodecanesulfonic acid	24.1	19.1		ng/g		79	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	20.3		ng/g		84	38 - 145
Perfluorooctanesulfonamide	25.0	20.5		ng/g		82	47 - 149
Perfluorohexadecanoic acid	25.0	16.6		ng/g		67	38 - 147
Perfluorooctadecanoic acid	25.0	17.3		ng/g		69	16 - 160
Perfluorobutanoic acid	25.0	18.2		ng/g		73	60 - 128
Perfluoropentanoic acid	25.0	20.6		ng/g		82	58 - 134
NMeFOSE	25.0	19.3		ng/g		77	60 - 130
NMeFOSA	25.0	20.9		ng/g		84	60 - 129
NEtFOSE	25.0	19.3		ng/g		77	60 - 126
NEtFOSA	25.0	20.9		ng/g		84	60 - 123
HFPODA	25.0	20.4		ng/g		82	49 - 135

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320180/2-B
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	23.6	19.5		ng/g		83	57 - 137
9Cl-PF3ONS	23.3	19.5		ng/g		84	62 - 130
11Cl-PF3OUdS	23.3	20.9		ng/g		90	55 - 135
Perfluorododecanoic acid	25.0	20.2		ng/g		81	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.3		ng/g		83	58 - 131
Perfluoroundecanoic acid	25.0	22.1		ng/g		88	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	19.7		ng/g		83	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	18.6		ng/g		78	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*104*		*10 - 200*
M2-8:2 FTS	*109*		*15 - 200*
M2-6:2 FTS	*112*		*10 - 200*
13C5 PFHxA	*113*		*10 - 174*
13C4 PFHpA	*117*		*10 - 178*
13C8 PFOA	*115*		*26 - 159*
13C9 PFNA	*121*		*26 - 165*
13C6 PFDA	*119*		*26 - 161*
13C7 PFUnA	*110*		*12 - 173*
13C2-PFDoDA	*126*		*11 - 166*
13C2 PFTeDA	*138*		*10 - 169*
13C3 PFBS	*114*		*27 - 179*
13C3 PFHxS	*114*		*24 - 171*
13C8 PFOS	*124*		*41 - 154*
d3-NMeFOSAA	*113*		*10 - 178*
d5-NEtFOSAA	*111*		*10 - 193*
13C8 FOSA	*107*		*14 - 163*
13C4 PFBA	*115*		*28 - 153*
13C5 PFPeA	*120*		*24 - 161*
d7-N-MeFOSE-M	*113*		*10 - 179*
d3-NMePFOSA	*83*		*10 - 175*
d9-N-EtFOSE-M	*114*		*10 - 185*
d5-NEtPFOSA	*85*		*10 - 180*
13C3 HFPO-DA	*119*		*10 - 169*

Lab Sample ID: 410-106099-8 MS
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: NOR-15-S-04-06
Prep Type: Total/NA
Prep Batch: 320180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	1.5		24.4	20.1		ng/g	☼	76	59 - 132
Perfluoroheptanoic acid	1.3		24.4	22.6		ng/g	☼	87	59 - 137
Perfluorooctanoic acid	<0.21		24.4	18.9		ng/g	☼	77	59 - 131
Perfluorononanoic acid	<0.21		24.4	19.3		ng/g	☼	79	61 - 134
Perfluorodecanoic acid	<0.21		24.4	21.2		ng/g	☼	87	56 - 133
Perfluorotridecanoic acid	<0.21		24.4	20.5		ng/g	☼	84	53 - 143
Perfluorotetradecanoic acid	<0.21		24.4	18.8		ng/g	☼	77	62 - 134
Perfluorobutanesulfonic acid	<0.41		21.6	17.8		ng/g	☼	82	54 - 130
Perfluorohexanesulfonic acid	<0.21		22.3	18.9		ng/g	☼	85	59 - 129

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-106099-8 MS
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: NOR-15-S-04-06
Prep Type: Total/NA
Prep Batch: 320180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid	<0.21		22.6	18.2		ng/g	☼	81	61 - 126
NEtFOSAA	<0.21		24.4	17.8		ng/g	☼	73	57 - 127
NMeFOSAA	<0.21		24.4	16.3		ng/g	☼	67	60 - 134
10:2 FTS	<0.62		23.5	26.2		ng/g	☼	111	46 - 143
Perfluoropentanesulfonic acid	<0.21		22.9	18.4		ng/g	☼	80	57 - 133
Perfluoroheptanesulfonic acid	<0.21		23.3	17.6		ng/g	☼	76	59 - 132
Perfluorononanesulfonic acid	<0.21		23.4	18.1		ng/g	☼	77	60 - 132
Perfluorodecanesulfonic acid	<0.21		23.5	18.7		ng/g	☼	79	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	<0.21		23.6	18.2		ng/g	☼	77	38 - 145
Perfluorooctanesulfonamide	<0.21		24.4	18.8		ng/g	☼	77	47 - 149
Perfluorohexadecanoic acid	<0.21		24.4	14.3		ng/g	☼	59	38 - 147
Perfluorooctadecanoic acid	<0.21	F2	24.4	9.12		ng/g	☼	37	16 - 160
Perfluorobutanoic acid	<0.83		24.4	16.7		ng/g	☼	68	60 - 128
Perfluoropentanoic acid	1.8		24.4	19.5		ng/g	☼	73	58 - 134
NMeFOSE	<0.52		24.4	19.6		ng/g	☼	80	60 - 130
NMeFOSA	<0.52		24.4	19.6		ng/g	☼	80	60 - 129
NEtFOSE	<0.52		24.4	17.7		ng/g	☼	72	60 - 126
NEtFOSA	<0.52		24.4	19.1		ng/g	☼	78	60 - 123
HFPODA	<1.0		24.4	19.9		ng/g	☼	81	49 - 135
DONA	<0.21		23.1	15.2		ng/g	☼	66	57 - 137
9Cl-PF3ONS	<0.21		22.7	18.0		ng/g	☼	79	62 - 130
11Cl-PF3OUdS	<0.21		22.7	18.7		ng/g	☼	82	55 - 135
Perfluorododecanoic acid	<0.21		24.4	21.2		ng/g	☼	87	60 - 135
4:2 Fluorotelomer sulfonic acid	<0.62		22.8	17.6		ng/g	☼	77	58 - 131
Perfluoroundecanoic acid	<0.21		24.4	20.3		ng/g	☼	83	60 - 134
6:2 Fluorotelomer sulfonic acid	26		23.2	40.7		ng/g	☼	62	59 - 135
8:2 Fluorotelomer sulfonic acid	<0.62		23.4	15.6		ng/g	☼	67	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*64*		*10 - 200*
M2-8:2 FTS	*89*		*15 - 200*
M2-6:2 FTS	*68*		*10 - 200*
13C5 PFHxA	*69*		*10 - 174*
13C4 PFHpA	*72*		*10 - 178*
13C8 PFOA	*70*		*26 - 159*
13C9 PFNA	*85*		*26 - 165*
13C6 PFDA	*77*		*26 - 161*
13C7 PFUnA	*86*		*12 - 173*
13C2-PFDoDA	*86*		*11 - 166*
13C2 PFTeDA	*96*		*10 - 169*
13C3 PFBS	*107*		*27 - 179*
13C3 PFHxS	*102*		*24 - 171*
13C8 PFOS	*115*		*41 - 154*
d3-NMeFOSAA	*8*	**5-*	*10 - 178*
d5-NEtFOSAA	*13*		*10 - 193*
13C8 FOSA	*110*		*14 - 163*
13C4 PFBA	*67*		*28 - 153*
13C5 PFPeA	*73*		*24 - 161*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-106099-8 MS
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: NOR-15-S-04-06
Prep Type: Total/NA
Prep Batch: 320180

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
d7-N-MeFOSE-M	*110*		*10 - 179*
d3-NMePFOSA	*97*		*10 - 175*
d9-N-EtFOSE-M	*118*		*10 - 185*
d5-NEtPFOSA	*99*		*10 - 180*
13C3 HFPO-DA	*81*		*10 - 169*

Lab Sample ID: 410-106099-8 MSD
Matrix: Solid
Analysis Batch: 320694

Client Sample ID: NOR-15-S-04-06
Prep Type: Total/NA
Prep Batch: 320180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	1.5		25.6	21.6		ng/g	☼	79	59 - 132	7	30
Perfluoroheptanoic acid	1.3		25.6	22.9		ng/g	☼	84	59 - 137	1	30
Perfluorooctanoic acid	<0.21		25.6	19.4		ng/g	☼	76	59 - 131	3	30
Perfluorononanoic acid	<0.21		25.6	19.9		ng/g	☼	78	61 - 134	4	30
Perfluorodecanoic acid	<0.21		25.6	22.0		ng/g	☼	86	56 - 133	4	30
Perfluorotridecanoic acid	<0.21		25.6	20.1		ng/g	☼	78	53 - 143	2	30
Perfluorotetradecanoic acid	<0.21		25.6	21.5		ng/g	☼	84	62 - 134	13	30
Perfluorobutanesulfonic acid	<0.41		22.7	19.0		ng/g	☼	84	54 - 130	7	30
Perfluorohexanesulfonic acid	<0.21		23.4	20.3		ng/g	☼	87	59 - 129	7	30
Perfluorooctanesulfonic acid	<0.21		23.7	19.7		ng/g	☼	83	61 - 126	8	30
NEtFOSAA	<0.21		25.6	17.9		ng/g	☼	70	57 - 127	1	30
NMeFOSAA	<0.21		25.6	20.9		ng/g	☼	81	60 - 134	25	30
10:2 FTS	<0.62		24.7	22.4		ng/g	☼	91	46 - 143	16	30
Perfluoropentanesulfonic acid	<0.21		24.0	19.2		ng/g	☼	80	57 - 133	4	30
Perfluoroheptanesulfonic acid	<0.21		24.4	19.2		ng/g	☼	79	59 - 132	8	30
Perfluorononanesulfonic acid	<0.21		24.6	19.7		ng/g	☼	80	60 - 132	8	30
Perfluorodecanesulfonic acid	<0.21		24.7	18.3		ng/g	☼	74	57 - 132	2	30
Perfluorododecanesulfonic acid (PFDoS)	<0.21		24.8	18.9		ng/g	☼	76	38 - 145	4	30
Perfluorooctanesulfonamide	<0.21		25.6	22.2		ng/g	☼	87	47 - 149	16	30
Perfluorohexadecanoic acid	<0.21		25.6	16.1		ng/g	☼	63	38 - 147	12	30
Perfluorooctadecanoic acid	<0.21	F2	25.6	12.8	F2	ng/g	☼	50	16 - 160	34	30
Perfluorobutanoic acid	<0.83		25.6	18.3		ng/g	☼	72	60 - 128	9	30
Perfluoropentanoic acid	1.8		25.6	22.2		ng/g	☼	80	58 - 134	13	30
NMeFOSE	<0.52		25.6	18.6		ng/g	☼	72	60 - 130	5	30
NMeFOSA	<0.52		25.6	19.7		ng/g	☼	77	60 - 129	1	30
NEtFOSE	<0.52		25.6	19.5		ng/g	☼	76	60 - 126	10	30
NEtFOSA	<0.52		25.6	20.6		ng/g	☼	80	60 - 123	7	30
HFPODA	<1.0		25.6	20.6		ng/g	☼	80	49 - 135	4	30
DONA	<0.21		24.2	16.6		ng/g	☼	68	57 - 137	9	30
9Cl-PF3ONS	<0.21		23.8	20.3		ng/g	☼	85	62 - 130	12	30
11Cl-PF3OUdS	<0.21		23.8	19.9		ng/g	☼	84	55 - 135	6	30
Perfluorododecanoic acid	<0.21		25.6	19.6		ng/g	☼	76	60 - 135	8	30
4:2 Fluorotelomer sulfonic acid	<0.62		23.9	18.3		ng/g	☼	76	58 - 131	4	30
Perfluoroundecanoic acid	<0.21		25.6	21.7		ng/g	☼	84	60 - 134	7	30
6:2 Fluorotelomer sulfonic acid	26		24.3	44.8		ng/g	☼	76	59 - 135	9	30
8:2 Fluorotelomer sulfonic acid	<0.62		24.6	17.9		ng/g	☼	73	55 - 133	14	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	65		10 - 200
M2-8:2 FTS	81		15 - 200
M2-6:2 FTS	67		10 - 200
13C5 PFHxA	64		10 - 174
13C4 PFHpA	68		10 - 178
13C8 PFOA	70		26 - 159
13C9 PFNA	82		26 - 165
13C6 PFDA	82		26 - 161
13C7 PFUnA	84		12 - 173
13C2-PFDoDA	88		11 - 166
13C2 PFTeDA	98		10 - 169
13C3 PFBS	108		27 - 179
13C3 PFHxS	100		24 - 171
13C8 PFOS	108		41 - 154
d3-NMeFOSAA	7	*5-	10 - 178
d5-NEtFOSAA	12		10 - 193
13C8 FOSA	98		14 - 163
13C4 PFBA	65		28 - 153
13C5 PFPeA	68		24 - 161
d7-N-MeFOSE-M	117		10 - 179
d3-NMePFOSA	100		10 - 175
d9-N-EtFOSE-M	109		10 - 185
d5-NEtPFOSA	98		10 - 180
13C3 HFPO-DA	80		10 - 169

Lab Sample ID: MB 410-320990/1-A
Matrix: Water
Analysis Batch: 323805

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.90		2.0	0.90	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluoroheptanoic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorooctanoic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorononanoic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorodecanoic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorotridecanoic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorotetradecanoic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorobutanesulfonic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorohexanesulfonic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorooctanesulfonic acid	<1.0		2.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1
NEtFOSAA	<0.50		3.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
NMeFOSAA	<0.60		2.0	0.60	ng/L		11/27/22 15:52	12/06/22 07:26	1
10:2 FTS	<1.0		5.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluoropentanesulfonic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluoroheptanesulfonic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorononanesulfonic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorodecanesulfonic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.50		3.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorooctanesulfonamide	<0.70		2.0	0.70	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorohexadecanoic acid	<1.0		3.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorooctadecanoic acid	<1.0		3.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-320990/1-A
Matrix: Water
Analysis Batch: 323805

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	<2.0		5.0	2.0	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluoropentanoic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
NMeFOSE	<1.0		3.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1
NMeFOSA	<1.0		3.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1
NEtFOSE	<1.0		3.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1
NEtFOSA	<1.0		5.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1
HFPODA	<1.0		3.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1
DONA	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
9Cl-PF3ONS	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
11Cl-PF3OUdS	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluorododecanoic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
4:2 Fluorotelomer sulfonic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
Perfluoroundecanoic acid	<0.50		2.0	0.50	ng/L		11/27/22 15:52	12/06/22 07:26	1
6:2 Fluorotelomer sulfonic acid	<4.2		5.0	4.2	ng/L		11/27/22 15:52	12/06/22 07:26	1
8:2 Fluorotelomer sulfonic acid	<1.0		3.0	1.0	ng/L		11/27/22 15:52	12/06/22 07:26	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 200*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
M2-8:2 FTS	*91*		*33 - 200*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
M2-6:2 FTS	*86*		*17 - 200*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C5 PFHxA	*94*		*24 - 179*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C4 PFHpA	*101*		*31 - 182*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C8 PFOA	*91*		*48 - 162*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C9 PFNA	*99*		*51 - 167*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C6 PFDA	*86*		*49 - 163*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C7 PFUnA	*86*		*34 - 174*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C2-PFDoDA	*84*		*17 - 176*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C2 PFTeDA	*82*		*10 - 179*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C3 PFBS	*90*		*16 - 200*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C3 PFHxS	*96*		*28 - 188*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C8 PFOS	*98*		*51 - 159*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
d3-NMeFOSAA	*87*		*31 - 174*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
d5-NEtFOSAA	*87*		*29 - 195*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C8 FOSA	*78*		*10 - 168*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C4 PFBA	*91*		*42 - 165*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C5 PFPeA	*94*		*38 - 187*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
d7-N-MeFOSE-M	*67*		*10 - 178*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
d3-NMePFOSA	*60*		*10 - 155*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
d9-N-EtFOSE-M	*61*		*10 - 177*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
d5-NEtPFOSA	*59*		*10 - 159*	*11/27/22 15:52*	*12/06/22 07:26*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*11/27/22 15:52*	*12/06/22 07:26*	*1*

Lab Sample ID: LCS 410-320990/2-A
Matrix: Water
Analysis Batch: 323805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	25.2		ng/L		98	58 - 139
Perfluoroheptanoic acid	25.6	25.6		ng/L		100	59 - 145

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320990/2-A
Matrix: Water
Analysis Batch: 323805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	25.6	24.2		ng/L		95	51 - 145
Perfluorononanoic acid	25.6	27.6		ng/L		108	61 - 139
Perfluorodecanoic acid	25.6	26.3		ng/L		103	56 - 138
Perfluorotridecanoic acid	25.6	27.7		ng/L		108	58 - 146
Perfluorotetradecanoic acid	25.6	28.3		ng/L		110	62 - 139
Perfluorobutanesulfonic acid	22.7	23.2		ng/L		102	53 - 138
Perfluorohexanesulfonic acid	23.3	23.1		ng/L		99	58 - 134
Perfluorooctanesulfonic acid	23.7	22.5		ng/L		95	45 - 150
NEtFOSAA	25.6	22.5		ng/L		88	55 - 134
NMeFOSAA	25.6	21.9		ng/L		86	59 - 140
10:2 FTS	24.7	22.9		ng/L		93	50 - 146
Perfluoropentanesulfonic acid	24.0	24.9		ng/L		104	55 - 140
Perfluoroheptanesulfonic acid	24.4	19.4		ng/L		80	56 - 140
Perfluorononanesulfonic acid	24.6	23.3		ng/L		95	59 - 136
Perfluorodecanesulfonic acid	24.7	21.3		ng/L		86	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.6		ng/L		87	48 - 138
Perfluorooctanesulfonamide	25.6	26.7		ng/L		104	43 - 167
Perfluorohexadecanoic acid	25.6	22.9		ng/L		89	41 - 158
Perfluorooctadecanoic acid	25.6	21.0		ng/L		82	29 - 172
Perfluorobutanoic acid	25.6	21.8		ng/L		85	59 - 136
Perfluoropentanoic acid	25.6	23.4		ng/L		91	57 - 141
NMeFOSE	25.6	25.1		ng/L		98	55 - 144
NMeFOSA	25.6	25.8		ng/L		101	64 - 143
NEtFOSE	25.6	27.4		ng/L		107	60 - 136
NEtFOSA	25.6	25.4		ng/L		99	61 - 134
HFPODA	25.6	23.3		ng/L		91	50 - 135
DONA	24.2	23.6		ng/L		98	55 - 143
9Cl-PF3ONS	23.8	21.6		ng/L		91	59 - 135
11Cl-PF3OUdS	23.8	20.9		ng/L		88	53 - 139
Perfluorododecanoic acid	25.6	23.9		ng/L		94	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	22.9		ng/L		96	55 - 139
Perfluoroundecanoic acid	25.6	23.6		ng/L		92	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	19.8		ng/L		82	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	25.7		ng/L		105	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*97*		*10 - 200*
M2-8:2 FTS	*88*		*33 - 200*
M2-6:2 FTS	*98*		*17 - 200*
13C5 PFHxA	*95*		*24 - 179*
13C4 PFHpA	*100*		*31 - 182*
13C8 PFOA	*94*		*48 - 162*
13C9 PFNA	*99*		*51 - 167*
13C6 PFDA	*94*		*49 - 163*
13C7 PFUnA	*89*		*34 - 174*
13C2-PFDoDA	*85*		*17 - 176*
13C2 PFTeDA	*87*		*10 - 179*
13C3 PFBS	*93*		*16 - 200*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-320990/2-A
Matrix: Water
Analysis Batch: 323805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320990

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 PFHxS	102		28 - 188
13C8 PFOS	103		51 - 159
d3-NMeFOSAA	88		31 - 174
d5-NEtFOSAA	89		29 - 195
13C8 FOSA	84		10 - 168
13C4 PFBA	99		42 - 165
13C5 PFPeA	100		38 - 187
d7-N-MeFOSE-M	77		10 - 178
d3-NMePFOSA	66		10 - 155
d9-N-EtFOSE-M	71		10 - 177
d5-NEtPFOSA	70		10 - 159
13C3 HFPO-DA	95		17 - 185

Lab Sample ID: LCSD 410-320990/3-A
Matrix: Water
Analysis Batch: 323805

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320990

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	24.5		ng/L		96	58 - 139	3	30
Perfluoroheptanoic acid			25.6	25.2		ng/L		98	59 - 145	2	30
Perfluorooctanoic acid			25.6	25.1		ng/L		98	51 - 145	4	30
Perfluorononanoic acid			25.6	26.3		ng/L		103	61 - 139	5	30
Perfluorodecanoic acid			25.6	27.0		ng/L		106	56 - 138	3	30
Perfluorotridecanoic acid			25.6	26.9		ng/L		105	58 - 146	3	30
Perfluorotetradecanoic acid			25.6	23.3		ng/L		91	62 - 139	19	30
Perfluorobutanesulfonic acid			22.7	22.3		ng/L		98	53 - 138	4	30
Perfluorohexanesulfonic acid			23.3	22.6		ng/L		97	58 - 134	2	30
Perfluorooctanesulfonic acid			23.7	23.7		ng/L		100	45 - 150	5	30
NEtFOSAA			25.6	23.1		ng/L		90	55 - 134	3	30
NMeFOSAA			25.6	22.1		ng/L		86	59 - 140	1	30
10:2 FTS			24.7	19.8		ng/L		80	50 - 146	14	30
Perfluoropentanesulfonic acid			24.0	21.3		ng/L		89	55 - 140	15	30
Perfluoroheptanesulfonic acid			24.4	22.4		ng/L		92	56 - 140	14	30
Perfluorononanesulfonic acid			24.6	21.7		ng/L		88	59 - 136	7	30
Perfluorodecanesulfonic acid			24.7	21.9		ng/L		89	55 - 137	3	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	21.8		ng/L		88	48 - 138	1	30
Perfluorooctanesulfonamide			25.6	27.5		ng/L		107	43 - 167	3	30
Perfluorohexadecanoic acid			25.6	20.1		ng/L		78	41 - 158	13	30
Perfluorooctadecanoic acid			25.6	19.9		ng/L		78	29 - 172	5	30
Perfluorobutanoic acid			25.6	22.5		ng/L		88	59 - 136	3	30
Perfluoropentanoic acid			25.6	23.2		ng/L		91	57 - 141	1	30
NMeFOSE			25.6	25.1		ng/L		98	55 - 144	0	30
NMeFOSA			25.6	27.7		ng/L		108	64 - 143	7	30
NEtFOSE			25.6	24.0		ng/L		94	60 - 136	13	30
NEtFOSA			25.6	26.7		ng/L		104	61 - 134	5	30
HFPODA			25.6	24.9		ng/L		97	50 - 135	7	30
DONA			24.2	23.7		ng/L		98	55 - 143	0	30
9Cl-PF3ONS			23.8	23.6		ng/L		99	59 - 135	9	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-320990/3-A
Matrix: Water
Analysis Batch: 323805

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 320990

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11Cl-PF3OUdS			23.8	22.3		ng/L		93	53 - 139	6	30
Perfluorododecanoic acid			25.6	25.6		ng/L		100	59 - 143	7	30
4:2 Fluorotelomer sulfonic acid			23.9	23.6		ng/L		99	55 - 139	3	30
Perfluoroundecanoic acid			25.6	26.3		ng/L		103	60 - 141	10	30
6:2 Fluorotelomer sulfonic acid			24.3	21.8		ng/L		90	28 - 173	9	30
8:2 Fluorotelomer sulfonic acid			24.5	20.7		ng/L		84	55 - 138	21	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*96*		*10 - 200*
M2-8:2 FTS	*100*		*33 - 200*
M2-6:2 FTS	*101*		*17 - 200*
13C5 PFHxA	*101*		*24 - 179*
13C4 PFHpA	*105*		*31 - 182*
13C8 PFOA	*101*		*48 - 162*
13C9 PFNA	*98*		*51 - 167*
13C6 PFDA	*91*		*49 - 163*
13C7 PFUnA	*91*		*34 - 174*
13C2-PFDoDA	*83*		*17 - 176*
13C2 PFTeDA	*96*		*10 - 179*
13C3 PFBS	*105*		*16 - 200*
13C3 PFHxS	*103*		*28 - 188*
13C8 PFOS	*100*		*51 - 159*
d3-NMeFOSAA	*98*		*31 - 174*
d5-NEtFOSAA	*90*		*29 - 195*
13C8 FOSA	*84*		*10 - 168*
13C4 PFBA	*100*		*42 - 165*
13C5 PFPeA	*106*		*38 - 187*
d7-N-MeFOSE-M	*87*		*10 - 178*
d3-NMePFOSA	*75*		*10 - 155*
d9-N-EtFOSE-M	*87*		*10 - 177*
d5-NEtPFOSA	*75*		*10 - 159*
13C3 HFPO-DA	*100*		*17 - 185*

Lab Sample ID: MB 410-321038/1-A
Matrix: Water
Analysis Batch: 323404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.90		2.0	0.90	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluoroheptanoic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorooctanoic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorononanoic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorodecanoic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorotridecanoic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorotetradecanoic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorobutanesulfonic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorohexanesulfonic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorooctanesulfonic acid	<1.0		2.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
NEtFOSAA	<0.50		3.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-321038/1-A
Matrix: Water
Analysis Batch: 323404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<0.60		2.0	0.60	ng/L		11/28/22 07:14	12/04/22 04:23	1
10:2 FTS	<1.0		5.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluoropentanesulfonic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluoroheptanesulfonic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorononanesulfonic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorodecanesulfonic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.50		3.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorooctanesulfonamide	<0.70		2.0	0.70	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorohexadecanoic acid	<1.0		3.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorooctadecanoic acid	<1.0		3.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorobutanoic acid	<2.0		5.0	2.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluoropentanoic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
NMeFOSE	<1.0		3.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
NMeFOSA	<1.0		3.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
NEtFOSE	<1.0		3.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
NEtFOSA	<1.0		5.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
HFPODA	<1.0		3.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1
DONA	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
9Cl-PF3ONS	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
11Cl-PF3OUdS	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluorododecanoic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
4:2 Fluorotelomer sulfonic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
Perfluoroundecanoic acid	<0.50		2.0	0.50	ng/L		11/28/22 07:14	12/04/22 04:23	1
6:2 Fluorotelomer sulfonic acid	<4.2		5.0	4.2	ng/L		11/28/22 07:14	12/04/22 04:23	1
8:2 Fluorotelomer sulfonic acid	<1.0		3.0	1.0	ng/L		11/28/22 07:14	12/04/22 04:23	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*108*		*10 - 200*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
M2-8:2 FTS	*112*		*33 - 200*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
M2-6:2 FTS	*109*		*17 - 200*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C5 PFHxA	*114*		*24 - 179*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C4 PFHpA	*114*		*31 - 182*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C8 PFOA	*113*		*48 - 162*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C9 PFNA	*128*		*51 - 167*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C6 PFDA	*120*		*49 - 163*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C7 PFUnA	*125*		*34 - 174*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C2-PFDoDA	*106*		*17 - 176*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C2 PFTeDA	*94*		*10 - 179*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C3 PFBS	*125*		*16 - 200*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C3 PFHxS	*120*		*28 - 188*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C8 PFOS	*132*		*51 - 159*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
d3-NMeFOSAA	*110*		*31 - 174*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
d5-NEtFOSAA	*117*		*29 - 195*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C8 FOSA	*111*		*10 - 168*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C4 PFBA	*119*		*42 - 165*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
13C5 PFPeA	*133*		*38 - 187*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
d7-N-MeFOSE-M	*93*		*10 - 178*	*11/28/22 07:14*	*12/04/22 04:23*	*1*
d3-NMePFOSA	*87*		*10 - 155*	*11/28/22 07:14*	*12/04/22 04:23*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-321038/1-A
Matrix: Water
Analysis Batch: 323404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321038

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	92		10 - 177	11/28/22 07:14	12/04/22 04:23	1
d5-NEtPFOSA	92		10 - 159	11/28/22 07:14	12/04/22 04:23	1
13C3 HFPO-DA	100		17 - 185	11/28/22 07:14	12/04/22 04:23	1

Lab Sample ID: LCS 410-321038/3-A
Matrix: Water
Analysis Batch: 323404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	21.8		ng/L		85	58 - 139
Perfluoroheptanoic acid	25.6	22.1		ng/L		86	59 - 145
Perfluorooctanoic acid	25.6	22.6		ng/L		88	51 - 145
Perfluorononanoic acid	25.6	22.4		ng/L		88	61 - 139
Perfluorodecanoic acid	25.6	24.0		ng/L		94	56 - 138
Perfluorotridecanoic acid	25.6	20.9		ng/L		82	58 - 146
Perfluorotetradecanoic acid	25.6	22.0		ng/L		86	62 - 139
Perfluorobutanesulfonic acid	22.7	20.2		ng/L		89	53 - 138
Perfluorohexanesulfonic acid	23.3	20.2		ng/L		87	58 - 134
Perfluorooctanesulfonic acid	23.7	21.0		ng/L		89	45 - 150
NEtFOSAA	25.6	21.4		ng/L		84	55 - 134
NMeFOSAA	25.6	22.5		ng/L		88	59 - 140
10:2 FTS	24.7	17.2		ng/L		69	50 - 146
Perfluoropentanesulfonic acid	24.0	22.2		ng/L		92	55 - 140
Perfluoroheptanesulfonic acid	24.4	20.7		ng/L		85	56 - 140
Perfluorononanesulfonic acid	24.6	18.8		ng/L		76	59 - 136
Perfluorodecanesulfonic acid	24.7	17.8		ng/L		72	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	16.0		ng/L		65	48 - 138
Perfluorooctanesulfonamide	25.6	22.8		ng/L		89	43 - 167
Perfluorohexadecanoic acid	25.6	15.7		ng/L		61	41 - 158
Perfluorooctadecanoic acid	25.6	15.6		ng/L		61	29 - 172
Perfluorobutanoic acid	25.6	20.4		ng/L		80	59 - 136
Perfluoropentanoic acid	25.6	19.8		ng/L		78	57 - 141
NMeFOSE	25.6	20.1		ng/L		79	55 - 144
NMeFOSA	25.6	23.9		ng/L		93	64 - 143
NEtFOSE	25.6	21.6		ng/L		84	60 - 136
NEtFOSA	25.6	22.6		ng/L		88	61 - 134
HFPODA	25.6	23.7		ng/L		93	50 - 135
DONA	24.2	21.8		ng/L		90	55 - 143
9Cl-PF3ONS	23.8	17.8		ng/L		75	59 - 135
11Cl-PF3OUdS	23.8	16.9		ng/L		71	53 - 139
Perfluorododecanoic acid	25.6	22.0		ng/L		86	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	19.3		ng/L		81	55 - 139
Perfluoroundecanoic acid	25.6	22.9		ng/L		89	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	19.5		ng/L		80	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	18.8		ng/L		77	55 - 138

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	115		10 - 200

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-321038/3-A
Matrix: Water
Analysis Batch: 323404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321038

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-8:2 FTS	129		33 - 200
M2-6:2 FTS	119		17 - 200
13C5 PFHxA	127		24 - 179
13C4 PFHpA	125		31 - 182
13C8 PFOA	129		48 - 162
13C9 PFNA	138		51 - 167
13C6 PFDA	131		49 - 163
13C7 PFUnA	134		34 - 174
13C2-PFDoDA	117		17 - 176
13C2 PFTeDA	105		10 - 179
13C3 PFBS	132		16 - 200
13C3 PFHxS	134		28 - 188
13C8 PFOS	145		51 - 159
d3-NMeFOSAA	121		31 - 174
d5-NEtFOSAA	127		29 - 195
13C8 FOSA	126		10 - 168
13C4 PFBA	133		42 - 165
13C5 PFPeA	138		38 - 187
d7-N-MeFOSE-M	113		10 - 178
d3-NMePFOSA	95		10 - 155
d9-N-EtFOSE-M	103		10 - 177
d5-NEtPFOSA	95		10 - 159
13C3 HFPO-DA	110		17 - 185

Lab Sample ID: LCSD 410-321038/4-A
Matrix: Water
Analysis Batch: 323404

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321038

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	22.0		ng/L		86	58 - 139	1	30
Perfluoroheptanoic acid			25.6	22.4		ng/L		88	59 - 145	1	30
Perfluorooctanoic acid			25.6	22.4		ng/L		88	51 - 145	1	30
Perfluorononanoic acid			25.6	23.5		ng/L		92	61 - 139	5	30
Perfluorodecanoic acid			25.6	25.7		ng/L		100	56 - 138	7	30
Perfluorotridecanoic acid			25.6	21.9		ng/L		86	58 - 146	5	30
Perfluorotetradecanoic acid			25.6	26.4		ng/L		103	62 - 139	18	30
Perfluorobutanesulfonic acid			22.7	19.2		ng/L		85	53 - 138	5	30
Perfluorohexanesulfonic acid			23.3	20.5		ng/L		88	58 - 134	1	30
Perfluorooctanesulfonic acid			23.7	22.0		ng/L		93	45 - 150	5	30
NEtFOSAA			25.6	22.7		ng/L		89	55 - 134	6	30
NMeFOSAA			25.6	24.0		ng/L		94	59 - 140	6	30
10:2 FTS			24.7	17.8		ng/L		72	50 - 146	4	30
Perfluoropentanesulfonic acid			24.0	21.7		ng/L		90	55 - 140	2	30
Perfluoroheptanesulfonic acid			24.4	21.2		ng/L		87	56 - 140	3	30
Perfluorononanesulfonic acid			24.6	18.4		ng/L		75	59 - 136	2	30
Perfluorodecanesulfonic acid			24.7	16.3		ng/L		66	55 - 137	9	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	14.9		ng/L		60	48 - 138	7	30
Perfluorooctanesulfonamide			25.6	25.3		ng/L		99	43 - 167	10	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-321038/4-A
Matrix: Water
Analysis Batch: 323404

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321038

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexadecanoic acid			25.6	20.2		ng/L		79	41 - 158	25	30
Perfluorooctadecanoic acid			25.6	19.6		ng/L		77	29 - 172	23	30
Perfluorobutanoic acid			25.6	20.0		ng/L		78	59 - 136	2	30
Perfluoropentanoic acid			25.6	20.8		ng/L		81	57 - 141	5	30
NMeFOSE			25.6	22.7		ng/L		89	55 - 144	12	30
NMeFOSA			25.6	25.2		ng/L		98	64 - 143	5	30
NEtFOSE			25.6	23.8		ng/L		93	60 - 136	10	30
NEtFOSA			25.6	23.6		ng/L		92	61 - 134	5	30
HFPODA			25.6	25.4		ng/L		99	50 - 135	7	30
DONA			24.2	21.9		ng/L		91	55 - 143	0	30
9Cl-PF3ONS			23.8	18.2		ng/L		76	59 - 135	2	30
11Cl-PF3OUdS			23.8	15.6		ng/L		65	53 - 139	8	30
Perfluorododecanoic acid			25.6	25.1		ng/L		98	59 - 143	14	30
4:2 Fluorotelomer sulfonic acid			23.9	19.0		ng/L		80	55 - 139	1	30
Perfluoroundecanoic acid			25.6	25.8		ng/L		101	60 - 141	12	30
6:2 Fluorotelomer sulfonic acid			24.3	20.2		ng/L		83	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid			24.5	20.5		ng/L		84	55 - 138	9	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*117*		*10 - 200*
M2-8:2 FTS	*100*		*33 - 200*
M2-6:2 FTS	*111*		*17 - 200*
13C5 PFHxA	*126*		*24 - 179*
13C4 PFHpA	*122*		*31 - 182*
13C8 PFOA	*124*		*48 - 162*
13C9 PFNA	*129*		*51 - 167*
13C6 PFDA	*108*		*49 - 163*
13C7 PFUnA	*97*		*34 - 174*
13C2-PFDoDA	*86*		*17 - 176*
13C2 PFTeDA	*71*		*10 - 179*
13C3 PFBS	*140*		*16 - 200*
13C3 PFHxS	*128*		*28 - 188*
13C8 PFOS	*128*		*51 - 159*
d3-NMeFOSAA	*97*		*31 - 174*
d5-NEtFOSAA	*96*		*29 - 195*
13C8 FOSA	*98*		*10 - 168*
13C4 PFBA	*132*		*42 - 165*
13C5 PFPeA	*138*		*38 - 187*
d7-N-MeFOSE-M	*93*		*10 - 178*
d3-NMePFOSA	*85*		*10 - 155*
d9-N-EtFOSE-M	*88*		*10 - 177*
d5-NEtPFOSA	*93*		*10 - 159*
13C3 HFPO-DA	*103*		*17 - 185*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-321492/1-A
Matrix: Water
Analysis Batch: 325226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.90		2.0	0.90	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluoroheptanoic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorooctanoic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorononanoic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorodecanoic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorotridecanoic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorotetradecanoic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorobutanesulfonic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorohexanesulfonic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorooctanesulfonic acid	<1.0		2.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
NEtFOSAA	<0.50		3.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
NMeFOSAA	<0.60		2.0	0.60	ng/L		11/29/22 07:29	12/08/22 19:57	1
10:2 FTS	<1.0		5.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluoropentanesulfonic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluoroheptanesulfonic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorononanesulfonic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorodecanesulfonic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorododecanesulfonic acid (PFDoS)	<0.50		3.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorooctanesulfonamide	<0.70		2.0	0.70	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorohexadecanoic acid	<1.0		3.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorooctadecanoic acid	<1.0		3.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorobutanoic acid	<2.0		5.0	2.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluoropentanoic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
NMeFOSE	<1.0		3.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
NMeFOSA	<1.0		3.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
NEtFOSE	<1.0		3.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
NEtFOSA	<1.0		5.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
HFPODA	<1.0		3.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1
DONA	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
9Cl-PF3ONS	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
11Cl-PF3OUdS	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluorododecanoic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
4:2 Fluorotelomer sulfonic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
Perfluoroundecanoic acid	<0.50		2.0	0.50	ng/L		11/29/22 07:29	12/08/22 19:57	1
6:2 Fluorotelomer sulfonic acid	<4.2		5.0	4.2	ng/L		11/29/22 07:29	12/08/22 19:57	1
8:2 Fluorotelomer sulfonic acid	<1.0		3.0	1.0	ng/L		11/29/22 07:29	12/08/22 19:57	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*105*		*10 - 200*	*11/29/22 07:29*	*12/08/22 19:57*	*1*
M2-8:2 FTS	*100*		*33 - 200*	*11/29/22 07:29*	*12/08/22 19:57*	*1*
M2-6:2 FTS	*111*		*17 - 200*	*11/29/22 07:29*	*12/08/22 19:57*	*1*
13C5 PFHxA	*94*		*24 - 179*	*11/29/22 07:29*	*12/08/22 19:57*	*1*
13C4 PFHpA	*91*		*31 - 182*	*11/29/22 07:29*	*12/08/22 19:57*	*1*
13C8 PFOA	*93*		*48 - 162*	*11/29/22 07:29*	*12/08/22 19:57*	*1*
13C9 PFNA	*112*		*51 - 167*	*11/29/22 07:29*	*12/08/22 19:57*	*1*
13C6 PFDA	*96*		*49 - 163*	*11/29/22 07:29*	*12/08/22 19:57*	*1*
13C7 PFUnA	*106*		*34 - 174*	*11/29/22 07:29*	*12/08/22 19:57*	*1*
13C2-PFDoDA	*94*		*17 - 176*	*11/29/22 07:29*	*12/08/22 19:57*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-321492/1-A
Matrix: Water
Analysis Batch: 325226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321492

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	100		10 - 179	11/29/22 07:29	12/08/22 19:57	1
13C3 PFBS	103		16 - 200	11/29/22 07:29	12/08/22 19:57	1
13C3 PFHxS	92		28 - 188	11/29/22 07:29	12/08/22 19:57	1
13C8 PFOS	106		51 - 159	11/29/22 07:29	12/08/22 19:57	1
d3-NMeFOSAA	91		31 - 174	11/29/22 07:29	12/08/22 19:57	1
d5-NEtFOSAA	98		29 - 195	11/29/22 07:29	12/08/22 19:57	1
13C8 FOSA	83		10 - 168	11/29/22 07:29	12/08/22 19:57	1
13C4 PFBA	100		42 - 165	11/29/22 07:29	12/08/22 19:57	1
13C5 PFPeA	101		38 - 187	11/29/22 07:29	12/08/22 19:57	1
d7-N-MeFOSE-M	82		10 - 178	11/29/22 07:29	12/08/22 19:57	1
d3-NMePFOSA	52		10 - 155	11/29/22 07:29	12/08/22 19:57	1
d9-N-EtFOSE-M	85		10 - 177	11/29/22 07:29	12/08/22 19:57	1
d5-NEtPFOSA	53		10 - 159	11/29/22 07:29	12/08/22 19:57	1
13C3 HFPO-DA	88		17 - 185	11/29/22 07:29	12/08/22 19:57	1

Lab Sample ID: LCS 410-321492/3-A
Matrix: Water
Analysis Batch: 325226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	26.8		ng/L		105	58 - 139
Perfluoroheptanoic acid	25.6	23.9		ng/L		93	59 - 145
Perfluorooctanoic acid	25.6	23.1		ng/L		90	51 - 145
Perfluorononanoic acid	25.6	23.7		ng/L		92	61 - 139
Perfluorodecanoic acid	25.6	23.1		ng/L		90	56 - 138
Perfluorotridecanoic acid	25.6	23.5		ng/L		92	58 - 146
Perfluorotetradecanoic acid	25.6	25.7		ng/L		100	62 - 139
Perfluorobutanesulfonic acid	22.7	21.3		ng/L		94	53 - 138
Perfluorohexanesulfonic acid	23.3	21.8		ng/L		93	58 - 134
Perfluorooctanesulfonic acid	23.7	22.1		ng/L		93	45 - 150
NEtFOSAA	25.6	24.6		ng/L		96	55 - 134
NMeFOSAA	25.6	23.9		ng/L		94	59 - 140
10:2 FTS	24.7	24.4		ng/L		99	50 - 146
Perfluoropentanesulfonic acid	24.0	22.8		ng/L		95	55 - 140
Perfluoroheptanesulfonic acid	24.4	21.7		ng/L		89	56 - 140
Perfluorononanesulfonic acid	24.6	22.8		ng/L		93	59 - 136
Perfluorodecanesulfonic acid	24.7	22.7		ng/L		92	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.8		ng/L		88	48 - 138
Perfluorooctanesulfonamide	25.6	24.4		ng/L		95	43 - 167
Perfluorohexadecanoic acid	25.6	22.2		ng/L		87	41 - 158
Perfluorooctadecanoic acid	25.6	21.1		ng/L		83	29 - 172
Perfluorobutanoic acid	25.6	20.9		ng/L		82	59 - 136
Perfluoropentanoic acid	25.6	21.3		ng/L		83	57 - 141
NMeFOSE	25.6	22.4		ng/L		87	55 - 144
NMeFOSA	25.6	24.4		ng/L		95	64 - 143
NEtFOSE	25.6	23.6		ng/L		92	60 - 136
NEtFOSA	25.6	23.8		ng/L		93	61 - 134
HFPODA	25.6	22.7		ng/L		89	50 - 135

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-321492/3-A
Matrix: Water
Analysis Batch: 325226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	24.2	20.4		ng/L		84	55 - 143
9Cl-PF3ONS	23.8	22.0		ng/L		92	59 - 135
11Cl-PF3OUdS	23.8	23.1		ng/L		97	53 - 139
Perfluorododecanoic acid	25.6	25.1		ng/L		98	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	21.1		ng/L		88	55 - 139
Perfluoroundecanoic acid	25.6	25.0		ng/L		97	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	21.3		ng/L		88	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	23.3		ng/L		95	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*107*		*10 - 200*
M2-8:2 FTS	*99*		*33 - 200*
M2-6:2 FTS	*112*		*17 - 200*
13C5 PFHxA	*89*		*24 - 179*
13C4 PFHpA	*99*		*31 - 182*
13C8 PFOA	*107*		*48 - 162*
13C9 PFNA	*113*		*51 - 167*
13C6 PFDA	*99*		*49 - 163*
13C7 PFUnA	*97*		*34 - 174*
13C2-PFDoDA	*97*		*17 - 176*
13C2 PFTeDA	*90*		*10 - 179*
13C3 PFBS	*104*		*16 - 200*
13C3 PFHxS	*97*		*28 - 188*
13C8 PFOS	*106*		*51 - 159*
d3-NMeFOSAA	*92*		*31 - 174*
d5-NEtFOSAA	*92*		*29 - 195*
13C8 FOSA	*82*		*10 - 168*
13C4 PFBA	*104*		*42 - 165*
13C5 PFPeA	*111*		*38 - 187*
d7-N-MeFOSE-M	*86*		*10 - 178*
d3-NMePFOSA	*62*		*10 - 155*
d9-N-EtFOSE-M	*86*		*10 - 177*
d5-NEtPFOSA	*62*		*10 - 159*
13C3 HFPO-DA	*94*		*17 - 185*

Lab Sample ID: LCSD 410-321492/4-A
Matrix: Water
Analysis Batch: 325226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321492

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.6	24.0		ng/L		94	58 - 139	11	30
Perfluoroheptanoic acid	25.6	23.2		ng/L		90	59 - 145	3	30
Perfluorooctanoic acid	25.6	25.9		ng/L		101	51 - 145	12	30
Perfluorononanoic acid	25.6	22.5		ng/L		88	61 - 139	5	30
Perfluorodecanoic acid	25.6	23.3		ng/L		91	56 - 138	1	30
Perfluorotridecanoic acid	25.6	23.8		ng/L		93	58 - 146	1	30
Perfluorotetradecanoic acid	25.6	24.6		ng/L		96	62 - 139	4	30
Perfluorobutanesulfonic acid	22.7	22.8		ng/L		101	53 - 138	7	30
Perfluorohexanesulfonic acid	23.3	21.8		ng/L		93	58 - 134	0	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-321492/4-A
Matrix: Water
Analysis Batch: 325226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321492

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid			23.7	23.6		ng/L		100	45 - 150	7	30
NEtFOSAA			25.6	26.4		ng/L		103	55 - 134	7	30
NMeFOSAA			25.6	25.5		ng/L		100	59 - 140	6	30
10:2 FTS			24.7	26.1		ng/L		106	50 - 146	7	30
Perfluoropentanesulfonic acid			24.0	21.7		ng/L		90	55 - 140	5	30
Perfluoroheptanesulfonic acid			24.4	24.1		ng/L		99	56 - 140	10	30
Perfluorononanesulfonic acid			24.6	23.4		ng/L		95	59 - 136	2	30
Perfluorodecanesulfonic acid			24.7	23.9		ng/L		97	55 - 137	5	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	22.6		ng/L		91	48 - 138	4	30
Perfluorooctanesulfonamide			25.6	25.9		ng/L		101	43 - 167	6	30
Perfluorohexadecanoic acid			25.6	22.8		ng/L		89	41 - 158	3	30
Perfluorooctadecanoic acid			25.6	21.9		ng/L		86	29 - 172	4	30
Perfluorobutanoic acid			25.6	21.4		ng/L		84	59 - 136	3	30
Perfluoropentanoic acid			25.6	25.5		ng/L		100	57 - 141	18	30
NMeFOSE			25.6	23.6		ng/L		92	55 - 144	5	30
NMeFOSA			25.6	24.3		ng/L		95	64 - 143	1	30
NEtFOSE			25.6	22.8		ng/L		89	60 - 136	3	30
NEtFOSA			25.6	25.6		ng/L		100	61 - 134	8	30
HFPODA			25.6	22.8		ng/L		89	50 - 135	0	30
DONA			24.2	22.6		ng/L		93	55 - 143	10	30
9Cl-PF3ONS			23.8	22.9		ng/L		96	59 - 135	4	30
11Cl-PF3OUdS			23.8	23.6		ng/L		99	53 - 139	2	30
Perfluorododecanoic acid			25.6	25.0		ng/L		98	59 - 143	0	30
4:2 Fluorotelomer sulfonic acid			23.9	24.4		ng/L		102	55 - 139	15	30
Perfluoroundecanoic acid			25.6	26.8		ng/L		105	60 - 141	7	30
6:2 Fluorotelomer sulfonic acid			24.3	25.1		ng/L		104	28 - 173	17	30
8:2 Fluorotelomer sulfonic acid			24.5	22.3		ng/L		91	55 - 138	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*100*		*10 - 200*
M2-8:2 FTS	*116*		*33 - 200*
M2-6:2 FTS	*107*		*17 - 200*
13C5 PFHxA	*102*		*24 - 179*
13C4 PFHpA	*100*		*31 - 182*
13C8 PFOA	*104*		*48 - 162*
13C9 PFNA	*125*		*51 - 167*
13C6 PFDA	*111*		*49 - 163*
13C7 PFUnA	*102*		*34 - 174*
13C2-PFDoDA	*109*		*17 - 176*
13C2 PFTeDA	*104*		*10 - 179*
13C3 PFBS	*108*		*16 - 200*
13C3 PFHxS	*96*		*28 - 188*
13C8 PFOS	*109*		*51 - 159*
d3-NMeFOSAA	*101*		*31 - 174*
d5-NEtFOSAA	*96*		*29 - 195*
13C8 FOSA	*89*		*10 - 168*
13C4 PFBA	*111*		*42 - 165*
13C5 PFPeA	*105*		*38 - 187*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-321492/4-A
Matrix: Water
Analysis Batch: 325226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321492

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d7-N-MeFOSE-M	77		10 - 178
d3-NMePFOSA	40		10 - 155
d9-N-EtFOSE-M	76		10 - 177
d5-NEtPFOSA	38		10 - 159
13C3 HFPO-DA	96		17 - 185

Lab Sample ID: MB 410-325443/1-B
Matrix: Solid
Analysis Batch: 326079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 325443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
10:2 FTS	<0.60		2.0	0.60	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
NMeFOSE	<0.50		2.0	0.50	ng/g		12/09/22 10:19	12/12/22 20:00	1
NMeFOSA	<0.50		2.0	0.50	ng/g		12/09/22 10:19	12/12/22 20:00	1
NEtFOSE	<0.50		2.0	0.50	ng/g		12/09/22 10:19	12/12/22 20:00	1
NEtFOSA	<0.50		2.0	0.50	ng/g		12/09/22 10:19	12/12/22 20:00	1
HFPODA	<1.0		2.0	1.0	ng/g		12/09/22 10:19	12/12/22 20:00	1
DONA	<0.20		3.0	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		12/09/22 10:19	12/12/22 20:00	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		12/09/22 10:19	12/12/22 20:00	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		12/09/22 10:19	12/12/22 20:00	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		12/09/22 10:19	12/12/22 20:00	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	111		10 - 200	12/09/22 10:19	12/12/22 20:00	1
M2-8:2 FTS	103		15 - 200	12/09/22 10:19	12/12/22 20:00	1
M2-6:2 FTS	110		10 - 200	12/09/22 10:19	12/12/22 20:00	1
13C5 PFHxA	106		10 - 174	12/09/22 10:19	12/12/22 20:00	1
13C4 PFHpA	107		10 - 178	12/09/22 10:19	12/12/22 20:00	1
13C8 PFOA	105		26 - 159	12/09/22 10:19	12/12/22 20:00	1
13C9 PFNA	116		26 - 165	12/09/22 10:19	12/12/22 20:00	1
13C6 PFDA	91		26 - 161	12/09/22 10:19	12/12/22 20:00	1
13C7 PFUnA	98		12 - 173	12/09/22 10:19	12/12/22 20:00	1
13C2-PFDoDA	88		11 - 166	12/09/22 10:19	12/12/22 20:00	1
13C2 PFTeDA	96		10 - 169	12/09/22 10:19	12/12/22 20:00	1
13C3 PFBS	101		27 - 179	12/09/22 10:19	12/12/22 20:00	1
13C3 PFHxS	107		24 - 171	12/09/22 10:19	12/12/22 20:00	1
13C8 PFOS	118		41 - 154	12/09/22 10:19	12/12/22 20:00	1
d3-NMeFOSAA	77		10 - 178	12/09/22 10:19	12/12/22 20:00	1
d5-NEtFOSAA	88		10 - 193	12/09/22 10:19	12/12/22 20:00	1
13C8 FOSA	90		14 - 163	12/09/22 10:19	12/12/22 20:00	1
13C4 PFBA	102		28 - 153	12/09/22 10:19	12/12/22 20:00	1
13C5 PFPeA	98		24 - 161	12/09/22 10:19	12/12/22 20:00	1
d7-N-MeFOSE-M	89		10 - 179	12/09/22 10:19	12/12/22 20:00	1
d3-NMePFOSA	75		10 - 175	12/09/22 10:19	12/12/22 20:00	1
d9-N-EtFOSE-M	97		10 - 185	12/09/22 10:19	12/12/22 20:00	1
d5-NEtPFOSA	82		10 - 180	12/09/22 10:19	12/12/22 20:00	1
13C3 HFPO-DA	100		10 - 169	12/09/22 10:19	12/12/22 20:00	1

Lab Sample ID: LCS 410-325443/3-B
Matrix: Solid
Analysis Batch: 326079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 325443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	24.0		ng/g		96	59 - 132
Perfluoroheptanoic acid	25.0	25.6		ng/g		102	59 - 137
Perfluorooctanoic acid	25.0	23.2		ng/g		93	59 - 131
Perfluorononanoic acid	25.0	26.7		ng/g		107	61 - 134
Perfluorodecanoic acid	25.0	24.8		ng/g		99	56 - 133
Perfluorotridecanoic acid	25.0	30.8		ng/g		123	53 - 143
Perfluorotetradecanoic acid	25.0	25.8		ng/g		103	62 - 134
Perfluorobutanesulfonic acid	22.1	22.6		ng/g		102	54 - 130
Perfluorohexanesulfonic acid	22.8	23.7		ng/g		104	59 - 129
Perfluorooctanesulfonic acid	23.1	22.4		ng/g		97	61 - 126
NEtFOSAA	25.0	22.8		ng/g		91	57 - 127
NMeFOSAA	25.0	27.2		ng/g		109	60 - 134
10:2 FTS	24.1	23.3		ng/g		97	46 - 143
Perfluoropentanesulfonic acid	23.5	22.7		ng/g		97	57 - 133
Perfluoroheptanesulfonic acid	23.8	25.9		ng/g		109	59 - 132
Perfluorononanesulfonic acid	24.0	23.1		ng/g		96	60 - 132
Perfluorodecanesulfonic acid	24.1	21.9		ng/g		91	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	21.1		ng/g		87	38 - 145
Perfluorooctanesulfonamide	25.0	24.9		ng/g		99	47 - 149
Perfluorohexadecanoic acid	25.0	22.3		ng/g		89	38 - 147
Perfluorooctadecanoic acid	25.0	20.9		ng/g		84	16 - 160

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-325443/3-B
Matrix: Solid
Analysis Batch: 326079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 325443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	25.0	22.9		ng/g		92	60 - 128
Perfluoropentanoic acid	25.0	24.8		ng/g		99	58 - 134
NMeFOSE	25.0	24.4		ng/g		98	60 - 130
NMeFOSA	25.0	25.4		ng/g		102	60 - 129
NEtFOSE	25.0	22.9		ng/g		92	60 - 126
NEtFOSA	25.0	23.5		ng/g		94	60 - 123
HFPODA	25.0	26.5		ng/g		106	49 - 135
DONA	23.6	24.8		ng/g		105	57 - 137
9Cl-PF3ONS	23.3	24.7		ng/g		106	62 - 130
11Cl-PF3OUdS	23.3	21.7		ng/g		93	55 - 135
Perfluorododecanoic acid	25.0	25.8		ng/g		103	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	21.7		ng/g		93	58 - 131
Perfluoroundecanoic acid	25.0	23.5		ng/g		94	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	21.4		ng/g		90	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	22.7		ng/g		95	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*107*		*10 - 200*
M2-8:2 FTS	*94*		*15 - 200*
M2-6:2 FTS	*106*		*10 - 200*
13C5 PFHxA	*102*		*10 - 174*
13C4 PFHpA	*99*		*10 - 178*
13C8 PFOA	*104*		*26 - 159*
13C9 PFNA	*103*		*26 - 165*
13C6 PFDA	*96*		*26 - 161*
13C7 PFUnA	*101*		*12 - 173*
13C2-PFDoDA	*85*		*11 - 166*
13C2 PFTeDA	*104*		*10 - 169*
13C3 PFBS	*94*		*27 - 179*
13C3 PFHxS	*100*		*24 - 171*
13C8 PFOS	*110*		*41 - 154*
d3-NMeFOSAA	*86*		*10 - 178*
d5-NEtFOSAA	*92*		*10 - 193*
13C8 FOSA	*97*		*14 - 163*
13C4 PFBA	*98*		*28 - 153*
13C5 PFPeA	*97*		*24 - 161*
d7-N-MeFOSE-M	*87*		*10 - 179*
d3-NMePFOSA	*83*		*10 - 175*
d9-N-EtFOSE-M	*98*		*10 - 185*
d5-NEtPFOSA	*93*		*10 - 180*
13C3 HFPO-DA	*99*		*10 - 169*

Lab Sample ID: MB 410-336001/1-B
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluoroheptanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-336001/1-B
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorononanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorodecanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorotridecanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorotetradecanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorobutanesulfonic acid	<0.40		2.0	0.40	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorohexanesulfonic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorooctanesulfonic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
NEtFOSAA	<0.20		2.0	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
NMeFOSAA	<0.20		2.0	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
10:2 FTS	<0.60		2.0	0.60	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluoropentanesulfonic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluoroheptanesulfonic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorononanesulfonic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorodecanesulfonic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.20		2.0	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorooctanesulfonamide	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorohexadecanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorooctadecanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorobutanoic acid	<0.80		2.0	0.80	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluoropentanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
NMeFOSE	<0.50		2.0	0.50	ng/g		01/16/23 18:00	01/20/23 03:02	1
NMeFOSA	<0.50		2.0	0.50	ng/g		01/16/23 18:00	01/20/23 03:02	1
NEtFOSE	<0.50		2.0	0.50	ng/g		01/16/23 18:00	01/20/23 03:02	1
NEtFOSA	<0.50		2.0	0.50	ng/g		01/16/23 18:00	01/20/23 03:02	1
HFPODA	<1.0		2.0	1.0	ng/g		01/16/23 18:00	01/20/23 03:02	1
DONA	<0.20		3.0	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
9Cl-PF3ONS	<0.20		2.0	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
11Cl-PF3OUdS	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluorododecanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
4:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		01/16/23 18:00	01/20/23 03:02	1
Perfluoroundecanoic acid	<0.20		0.60	0.20	ng/g		01/16/23 18:00	01/20/23 03:02	1
6:2 Fluorotelomer sulfonic acid	<0.60		2.0	0.60	ng/g		01/16/23 18:00	01/20/23 03:02	1
8:2 Fluorotelomer sulfonic acid	<0.60		3.0	0.60	ng/g		01/16/23 18:00	01/20/23 03:02	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*97*		*10 - 200*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
M2-8:2 FTS	*108*		*15 - 200*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
M2-6:2 FTS	*102*		*10 - 200*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
13C5 PFHxA	*82*		*10 - 174*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
13C4 PFHpA	*90*		*10 - 178*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
13C8 PFOA	*87*		*26 - 159*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
13C9 PFNA	*103*		*26 - 165*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
13C6 PFDA	*92*		*26 - 161*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
13C7 PFUnA	*92*		*12 - 173*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
13C2-PFDoDA	*100*		*11 - 166*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
13C2 PFTeDA	*96*		*10 - 169*	*01/16/23 18:00*	*01/20/23 03:02*	*1*
13C3 PFBS	*96*		*27 - 179*	*01/16/23 18:00*	*01/20/23 03:02*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-336001/1-B
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336001

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	103		24 - 171	01/16/23 18:00	01/20/23 03:02	1
13C8 PFOS	109		41 - 154	01/16/23 18:00	01/20/23 03:02	1
d3-NMeFOSAA	81		10 - 178	01/16/23 18:00	01/20/23 03:02	1
d5-NEtFOSAA	82		10 - 193	01/16/23 18:00	01/20/23 03:02	1
13C8 FOSA	81		14 - 163	01/16/23 18:00	01/20/23 03:02	1
13C4 PFBA	82		28 - 153	01/16/23 18:00	01/20/23 03:02	1
13C5 PFPeA	75		24 - 161	01/16/23 18:00	01/20/23 03:02	1
d7-N-MeFOSE-M	87		10 - 179	01/16/23 18:00	01/20/23 03:02	1
d3-NMePFOSA	76		10 - 175	01/16/23 18:00	01/20/23 03:02	1
d9-N-EtFOSE-M	87		10 - 185	01/16/23 18:00	01/20/23 03:02	1
d5-NEtPFOSA	76		10 - 180	01/16/23 18:00	01/20/23 03:02	1
13C3 HFPO-DA	83		10 - 169	01/16/23 18:00	01/20/23 03:02	1

Lab Sample ID: LCS 410-336001/2-B
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	23.5		ng/g		94	59 - 132
Perfluoroheptanoic acid	25.0	24.3		ng/g		97	59 - 137
Perfluorooctanoic acid	25.0	22.9		ng/g		92	59 - 131
Perfluorononanoic acid	25.0	26.5		ng/g		106	61 - 134
Perfluorodecanoic acid	25.0	25.4		ng/g		102	56 - 133
Perfluorotridecanoic acid	25.0	25.3		ng/g		101	53 - 143
Perfluorotetradecanoic acid	25.0	25.7		ng/g		103	62 - 134
Perfluorobutanesulfonic acid	22.1	22.5		ng/g		102	54 - 130
Perfluorohexanesulfonic acid	22.8	23.2		ng/g		102	59 - 129
Perfluorooctanesulfonic acid	23.1	24.3		ng/g		105	61 - 126
NEtFOSAA	25.0	28.5		ng/g		114	57 - 127
NMeFOSAA	25.0	26.2		ng/g		105	60 - 134
10:2 FTS	24.1	28.6		ng/g		119	46 - 143
Perfluoropentanesulfonic acid	23.5	23.8		ng/g		101	57 - 133
Perfluoroheptanesulfonic acid	23.8	24.8		ng/g		104	59 - 132
Perfluorononanesulfonic acid	24.0	25.6		ng/g		107	60 - 132
Perfluorodecanesulfonic acid	24.1	25.7		ng/g		107	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	24.4		ng/g		101	38 - 145
Perfluorooctanesulfonamide	25.0	26.7		ng/g		107	47 - 149
Perfluorohexadecanoic acid	25.0	23.3		ng/g		93	38 - 147
Perfluorooctadecanoic acid	25.0	22.8		ng/g		91	16 - 160
Perfluorobutanoic acid	25.0	23.7		ng/g		95	60 - 128
Perfluoropentanoic acid	25.0	23.7		ng/g		95	58 - 134
NMeFOSE	25.0	26.0		ng/g		104	60 - 130
NMeFOSA	25.0	27.4		ng/g		110	60 - 129
NEtFOSE	25.0	24.7		ng/g		99	60 - 126
NEtFOSA	25.0	25.1		ng/g		100	60 - 123
HFPODA	25.0	20.2		ng/g		81	49 - 135
DONA	23.6	21.3		ng/g		90	57 - 137
9Cl-PF3ONS	23.3	23.7		ng/g		102	62 - 130

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-336001/2-B
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	23.3	23.6		ng/g		102	55 - 135
Perfluorododecanoic acid	25.0	25.4		ng/g		101	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	22.9		ng/g		98	58 - 131
Perfluoroundecanoic acid	25.0	24.2		ng/g		97	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	23.2		ng/g		98	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	26.4		ng/g		110	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*90*		*10 - 200*
M2-8:2 FTS	*92*		*15 - 200*
M2-6:2 FTS	*104*		*10 - 200*
13C5 PFHxA	*91*		*10 - 174*
13C4 PFHpA	*96*		*10 - 178*
13C8 PFOA	*97*		*26 - 159*
13C9 PFNA	*107*		*26 - 165*
13C6 PFDA	*95*		*26 - 161*
13C7 PFUnA	*98*		*12 - 173*
13C2-PFDoDA	*98*		*11 - 166*
13C2 PFTeDA	*91*		*10 - 169*
13C3 PFBS	*100*		*27 - 179*
13C3 PFHxS	*104*		*24 - 171*
13C8 PFOS	*116*		*41 - 154*
d3-NMeFOSAA	*75*		*10 - 178*
d5-NEtFOSAA	*80*		*10 - 193*
13C8 FOSA	*79*		*14 - 163*
13C4 PFBA	*88*		*28 - 153*
13C5 PFPeA	*82*		*24 - 161*
d7-N-MeFOSE-M	*92*		*10 - 179*
d3-NMePFOSA	*79*		*10 - 175*
d9-N-EtFOSE-M	*91*		*10 - 185*
d5-NEtPFOSA	*84*		*10 - 180*
13C3 HFPO-DA	*99*		*10 - 169*

Lab Sample ID: 410-106099-5 MS
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: NOR-14-S-20-30
Prep Type: Total/NA
Prep Batch: 336001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	<0.19	H cn	24.1	22.1		ng/g	☼	92	59 - 132
Perfluoroheptanoic acid	<0.19	H cn	24.1	21.0		ng/g	☼	87	59 - 137
Perfluorooctanoic acid	<0.19	H cn	24.1	22.9		ng/g	☼	95	59 - 131
Perfluorononanoic acid	<0.19	H cn	24.1	23.6		ng/g	☼	98	61 - 134
Perfluorodecanoic acid	<0.19	H cn	24.1	20.7		ng/g	☼	86	56 - 133
Perfluorotridecanoic acid	<0.19	H cn	24.1	23.2		ng/g	☼	96	53 - 143
Perfluorotetradecanoic acid	<0.19	H cn	24.1	22.6		ng/g	☼	94	62 - 134
Perfluorobutanesulfonic acid	<0.39	H cn	21.4	20.6		ng/g	☼	96	54 - 130
Perfluorohexanesulfonic acid	<0.19	H cn	22.0	18.7		ng/g	☼	85	59 - 129
Perfluorooctanesulfonic acid	<0.19	H cn	22.3	20.3		ng/g	☼	91	61 - 126
NEtFOSAA	<0.19	H cn	24.1	23.5		ng/g	☼	97	57 - 127

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-106099-5 MS
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: NOR-14-S-20-30
Prep Type: Total/NA
Prep Batch: 336001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	<0.19	H cn	24.1	21.8		ng/g	☼	90	60 - 134
10:2 FTS	<0.58	H cn	23.3	22.0		ng/g	☼	95	46 - 143
Perfluoropentanesulfonic acid	<0.19	H cn	22.6	20.2		ng/g	☼	89	57 - 133
Perfluoroheptanesulfonic acid	<0.19	H cn	23.0	19.9		ng/g	☼	87	59 - 132
Perfluorononanesulfonic acid	<0.19	H cn	23.2	20.7		ng/g	☼	89	60 - 132
Perfluorodecanesulfonic acid	<0.19	H cn	23.3	21.6		ng/g	☼	93	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	<0.19	H cn	23.4	20.2		ng/g	☼	86	38 - 145
Perfluorooctanesulfonamide	<0.19	H cn	24.1	22.8		ng/g	☼	94	47 - 149
Perfluorohexadecanoic acid	<0.19	H cn	24.1	20.2		ng/g	☼	84	38 - 147
Perfluorooctadecanoic acid	<0.19	H cn	24.1	20.1		ng/g	☼	83	16 - 160
Perfluorobutanoic acid	<0.78	H cn	24.1	20.2		ng/g	☼	84	60 - 128
Perfluoropentanoic acid	<0.19	H cn	24.1	22.5		ng/g	☼	93	58 - 134
NMeFOSE	<0.49	H cn	24.1	23.3		ng/g	☼	97	60 - 130
NMeFOSA	<0.49	H cn	24.1	21.0		ng/g	☼	87	60 - 129
NEtFOSE	<0.49	H cn	24.1	21.5		ng/g	☼	89	60 - 126
NEtFOSA	<0.49	H cn	24.1	24.1		ng/g	☼	100	60 - 123
HFPODA	<0.97	H cn	24.1	18.9		ng/g	☼	78	49 - 135
DONA	<0.19	H cn	22.8	21.5		ng/g	☼	94	57 - 137
9Cl-PF3ONS	<0.19	H cn	22.4	20.2		ng/g	☼	90	62 - 130
11Cl-PF3OUdS	<0.19	H cn	22.4	20.5		ng/g	☼	91	55 - 135
Perfluorododecanoic acid	<0.19	H cn	24.1	20.9		ng/g	☼	87	60 - 135
4:2 Fluorotelomer sulfonic acid	<0.58	H cn	22.5	22.2		ng/g	☼	98	58 - 131
Perfluoroundecanoic acid	<0.19	H cn	24.1	22.1		ng/g	☼	92	60 - 134
6:2 Fluorotelomer sulfonic acid	<0.58	H cn	22.9	23.8		ng/g	☼	104	59 - 135
8:2 Fluorotelomer sulfonic acid	<0.58	H cn	23.1	22.6		ng/g	☼	98	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*83*		*10 - 200*
M2-8:2 FTS	*90*		*15 - 200*
M2-6:2 FTS	*83*		*10 - 200*
13C5 PFHxA	*80*		*10 - 174*
13C4 PFHpA	*89*		*10 - 178*
13C8 PFOA	*83*		*26 - 159*
13C9 PFNA	*88*		*26 - 165*
13C6 PFDA	*85*		*26 - 161*
13C7 PFUnA	*90*		*12 - 173*
13C2-PFDoDA	*90*		*11 - 166*
13C2 PFTeDA	*91*		*10 - 169*
13C3 PFBS	*92*		*27 - 179*
13C3 PFHxS	*104*		*24 - 171*
13C8 PFOS	*105*		*41 - 154*
d3-NMeFOSAA	*30*		*10 - 178*
d5-NEtFOSAA	*33*		*10 - 193*
13C8 FOSA	*81*		*14 - 163*
13C4 PFBA	*85*		*28 - 153*
13C5 PFPeA	*75*		*24 - 161*
d7-N-MeFOSE-M	*86*		*10 - 179*
d3-NMePFOSA	*84*		*10 - 175*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-106099-5 MS
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: NOR-14-S-20-30
Prep Type: Total/NA
Prep Batch: 336001

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d9-N-EtFOSE-M	88		10 - 185
d5-NEtPFOSA	79		10 - 180
13C3 HFPO-DA	89		10 - 169

Lab Sample ID: 410-106099-5 MSD
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: NOR-14-S-20-30
Prep Type: Total/NA
Prep Batch: 336001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	<0.19	H cn	24.8	21.8		ng/g	☼	88	59 - 132	1	30
Perfluoroheptanoic acid	<0.19	H cn	24.8	22.7		ng/g	☼	91	59 - 137	8	30
Perfluorooctanoic acid	<0.19	H cn	24.8	20.9		ng/g	☼	84	59 - 131	10	30
Perfluorononanoic acid	<0.19	H cn	24.8	23.8		ng/g	☼	96	61 - 134	1	30
Perfluorodecanoic acid	<0.19	H cn	24.8	21.9		ng/g	☼	88	56 - 133	5	30
Perfluorotridecanoic acid	<0.19	H cn	24.8	23.3		ng/g	☼	94	53 - 143	1	30
Perfluorotetradecanoic acid	<0.19	H cn	24.8	25.0		ng/g	☼	101	62 - 134	10	30
Perfluorobutanesulfonic acid	<0.39	H cn	22.0	21.7		ng/g	☼	99	54 - 130	5	30
Perfluorohexanesulfonic acid	<0.19	H cn	22.6	19.8		ng/g	☼	87	59 - 129	5	30
Perfluorooctanesulfonic acid	<0.19	H cn	23.0	22.2		ng/g	☼	97	61 - 126	9	30
NEtFOSAA	<0.19	H cn	24.8	23.7		ng/g	☼	95	57 - 127	1	30
NMeFOSAA	<0.19	H cn	24.8	22.1		ng/g	☼	89	60 - 134	2	30
10:2 FTS	<0.58	H cn	23.9	24.0		ng/g	☼	100	46 - 143	9	30
Perfluoropentanesulfonic acid	<0.19	H cn	23.3	22.2		ng/g	☼	95	57 - 133	9	30
Perfluoroheptanesulfonic acid	<0.19	H cn	23.6	20.8		ng/g	☼	88	59 - 132	4	30
Perfluorononanesulfonic acid	<0.19	H cn	23.8	22.2		ng/g	☼	93	60 - 132	7	30
Perfluorodecanesulfonic acid	<0.19	H cn	23.9	24.8		ng/g	☼	104	57 - 132	14	30
Perfluorododecanesulfonic acid (PFDoS)	<0.19	H cn	24.0	22.0		ng/g	☼	91	38 - 145	9	30
Perfluorooctanesulfonamide	<0.19	H cn	24.8	23.4		ng/g	☼	94	47 - 149	3	30
Perfluorohexadecanoic acid	<0.19	H cn	24.8	22.6		ng/g	☼	91	38 - 147	11	30
Perfluorooctadecanoic acid	<0.19	H cn	24.8	21.3		ng/g	☼	86	16 - 160	6	30
Perfluorobutanoic acid	<0.78	H cn	24.8	21.1		ng/g	☼	85	60 - 128	4	30
Perfluoropentanoic acid	<0.19	H cn	24.8	24.7		ng/g	☼	99	58 - 134	9	30
NMeFOSE	<0.49	H cn	24.8	25.7		ng/g	☼	104	60 - 130	10	30
NMeFOSA	<0.49	H cn	24.8	23.7		ng/g	☼	96	60 - 129	12	30
NEtFOSE	<0.49	H cn	24.8	22.5		ng/g	☼	91	60 - 126	5	30
NEtFOSA	<0.49	H cn	24.8	25.8		ng/g	☼	104	60 - 123	7	30
HFPODA	<0.97	H cn	24.8	18.3		ng/g	☼	74	49 - 135	3	30
DONA	<0.19	H cn	23.5	19.5		ng/g	☼	83	57 - 137	9	30
9Cl-PF3ONS	<0.19	H cn	23.1	22.8		ng/g	☼	99	62 - 130	12	30
11Cl-PF3OUdS	<0.19	H cn	23.1	21.9		ng/g	☼	95	55 - 135	7	30
Perfluorododecanoic acid	<0.19	H cn	24.8	22.6		ng/g	☼	91	60 - 135	8	30
4:2 Fluorotelomer sulfonic acid	<0.58	H cn	23.2	22.2		ng/g	☼	96	58 - 131	0	30
Perfluoroundecanoic acid	<0.19	H cn	24.8	23.2		ng/g	☼	93	60 - 134	5	30
6:2 Fluorotelomer sulfonic acid	<0.58	H cn	23.5	22.7		ng/g	☼	97	59 - 135	5	30
8:2 Fluorotelomer sulfonic acid	<0.58	H cn	23.8	23.5		ng/g	☼	99	55 - 133	4	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	74		10 - 200

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-106099-5 MSD
Matrix: Solid
Analysis Batch: 337081

Client Sample ID: NOR-14-S-20-30
Prep Type: Total/NA
Prep Batch: 336001

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-8:2 FTS	88		15 - 200
M2-6:2 FTS	75		10 - 200
13C5 PFHxA	66		10 - 174
13C4 PFHpA	71		10 - 178
13C8 PFOA	72		26 - 159
13C9 PFNA	83		26 - 165
13C6 PFDA	87		26 - 161
13C7 PFUnA	88		12 - 173
13C2-PFDoDA	91		11 - 166
13C2 PFTeDA	88		10 - 169
13C3 PFBS	82		27 - 179
13C3 PFHxS	87		24 - 171
13C8 PFOS	94		41 - 154
d3-NMeFOSAA	30		10 - 178
d5-NEtFOSAA	33		10 - 193
13C8 FOSA	76		14 - 163
13C4 PFBA	71		28 - 153
13C5 PFPeA	65		24 - 161
d7-N-MeFOSE-M	80		10 - 179
d3-NMePFOSA	73		10 - 175
d9-N-EtFOSE-M	83		10 - 185
d5-NEtPFOSA	67		10 - 180
13C3 HFPO-DA	74		10 - 169

LCMS

Prep Batch: 320180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-1	NOR-17-S-00-01	Total/NA	Solid	537 (mod)	
410-106099-8	NOR-15-S-04-06	Total/NA	Solid	537 (mod)	
MB 410-320180/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-320180/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
410-106099-8 MS	NOR-15-S-04-06	Total/NA	Solid	537 (mod)	
410-106099-8 MSD	NOR-15-S-04-06	Total/NA	Solid	537 (mod)	

Cleanup Batch: 320208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-1	NOR-17-S-00-01	Total/NA	Solid	Extract Aliquot	320180
410-106099-8	NOR-15-S-04-06	Total/NA	Solid	Extract Aliquot	320180
MB 410-320180/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	320180
LCS 410-320180/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	320180
410-106099-8 MS	NOR-15-S-04-06	Total/NA	Solid	Extract Aliquot	320180
410-106099-8 MSD	NOR-15-S-04-06	Total/NA	Solid	Extract Aliquot	320180

Analysis Batch: 320694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-1	NOR-17-S-00-01	Total/NA	Solid	537 IDA	320208
410-106099-8	NOR-15-S-04-06	Total/NA	Solid	537 IDA	320208
MB 410-320180/1-B	Method Blank	Total/NA	Solid	537 IDA	320208
LCS 410-320180/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	320208
410-106099-8 MS	NOR-15-S-04-06	Total/NA	Solid	537 IDA	320208
410-106099-8 MSD	NOR-15-S-04-06	Total/NA	Solid	537 IDA	320208

Prep Batch: 320990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-16	EB-111422	Total/NA	Water	EPA 537 (mod)	
MB 410-320990/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-320990/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-320990/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 321038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-17 - DL	RW6-73-GW-76	Total/NA	Water	EPA 537 (mod)	
410-106099-17	RW6-73-GW-76	Total/NA	Water	EPA 537 (mod)	
410-106099-18	FB-111522	Total/NA	Water	EPA 537 (mod)	
MB 410-321038/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-321038/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-321038/4-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 321492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-19	IES-WFCT-1122	Total/NA	Water	EPA 537 (mod)	
410-106099-20	IES-WFCT-1122 DUP	Total/NA	Water	EPA 537 (mod)	
MB 410-321492/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-321492/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-321492/4-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

LCMS

Analysis Batch: 323404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-17 - DL	RW6-73-GW-76	Total/NA	Water	537 IDA	321038
410-106099-18	FB-111522	Total/NA	Water	537 IDA	321038
MB 410-321038/1-A	Method Blank	Total/NA	Water	537 IDA	321038
LCS 410-321038/3-A	Lab Control Sample	Total/NA	Water	537 IDA	321038
LCSD 410-321038/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	321038

Analysis Batch: 323805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-16	EB-111422	Total/NA	Water	537 IDA	320990
MB 410-320990/1-A	Method Blank	Total/NA	Water	537 IDA	320990
LCS 410-320990/2-A	Lab Control Sample	Total/NA	Water	537 IDA	320990
LCSD 410-320990/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	320990

Analysis Batch: 324533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-17	RW6-73-GW-76	Total/NA	Water	537 IDA	321038

Analysis Batch: 325226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-19	IES-WFCT-1122	Total/NA	Water	537 IDA	321492
410-106099-20	IES-WFCT-1122 DUP	Total/NA	Water	537 IDA	321492
MB 410-321492/1-A	Method Blank	Total/NA	Water	537 IDA	321492
LCS 410-321492/3-A	Lab Control Sample	Total/NA	Water	537 IDA	321492
LCSD 410-321492/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	321492

Prep Batch: 325443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-9	NOR-15-S-06-08	Total/NA	Solid	537 (mod)	
410-106099-10	NOR-15-S-08-10	Total/NA	Solid	537 (mod)	
410-106099-11	NOR-15-S-15-20	Total/NA	Solid	537 (mod)	
MB 410-325443/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-325443/3-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 325461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-9	NOR-15-S-06-08	Total/NA	Solid	Extract Aliquot	325443
410-106099-10	NOR-15-S-08-10	Total/NA	Solid	Extract Aliquot	325443
410-106099-11	NOR-15-S-15-20	Total/NA	Solid	Extract Aliquot	325443
MB 410-325443/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	325443
LCS 410-325443/3-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	325443

Analysis Batch: 326079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-9	NOR-15-S-06-08	Total/NA	Solid	537 IDA	325461
410-106099-10	NOR-15-S-08-10	Total/NA	Solid	537 IDA	325461
410-106099-11	NOR-15-S-15-20	Total/NA	Solid	537 IDA	325461
MB 410-325443/1-B	Method Blank	Total/NA	Solid	537 IDA	325461
LCS 410-325443/3-B	Lab Control Sample	Total/NA	Solid	537 IDA	325461

LCMS

Prep Batch: 327010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-9 - RE	NOR-15-S-06-08	Total/NA	Solid	537 (mod)	
410-106099-11 - RE	NOR-15-S-15-20	Total/NA	Solid	537 (mod)	
MB 410-327010/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-327010/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 327050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-9 - RE	NOR-15-S-06-08	Total/NA	Solid	Extract Aliquot	327010
410-106099-11 - RE	NOR-15-S-15-20	Total/NA	Solid	Extract Aliquot	327010
MB 410-327010/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	327010
LCS 410-327010/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	327010

Analysis Batch: 328561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-9 - RE	NOR-15-S-06-08	Total/NA	Solid	537 IDA	327050
410-106099-11 - RE	NOR-15-S-15-20	Total/NA	Solid	537 IDA	327050
MB 410-327010/1-B	Method Blank	Total/NA	Solid	537 IDA	327050
LCS 410-327010/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	327050

Prep Batch: 336001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-5	NOR-14-S-20-30	Total/NA	Solid	537 (mod)	
410-106099-6	NOR-14-S-30-40	Total/NA	Solid	537 (mod)	
410-106099-7	NOR-14-S-40-50	Total/NA	Solid	537 (mod)	
410-106099-12	NOR-15-S-20-30	Total/NA	Solid	537 (mod)	
410-106099-13	NOR-15-S-30-40	Total/NA	Solid	537 (mod)	
410-106099-14	NOR-15-S-40-50	Total/NA	Solid	537 (mod)	
410-106099-15	NOR-15-S-50-55	Total/NA	Solid	537 (mod)	
MB 410-336001/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-336001/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
410-106099-5 MS	NOR-14-S-20-30	Total/NA	Solid	537 (mod)	
410-106099-5 MSD	NOR-14-S-20-30	Total/NA	Solid	537 (mod)	

Cleanup Batch: 336015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-5	NOR-14-S-20-30	Total/NA	Solid	Extract Aliquot	336001
410-106099-6	NOR-14-S-30-40	Total/NA	Solid	Extract Aliquot	336001
410-106099-7	NOR-14-S-40-50	Total/NA	Solid	Extract Aliquot	336001
410-106099-12	NOR-15-S-20-30	Total/NA	Solid	Extract Aliquot	336001
410-106099-13	NOR-15-S-30-40	Total/NA	Solid	Extract Aliquot	336001
410-106099-14	NOR-15-S-40-50	Total/NA	Solid	Extract Aliquot	336001
410-106099-15	NOR-15-S-50-55	Total/NA	Solid	Extract Aliquot	336001
MB 410-336001/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	336001
LCS 410-336001/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	336001
410-106099-5 MS	NOR-14-S-20-30	Total/NA	Solid	Extract Aliquot	336001
410-106099-5 MSD	NOR-14-S-20-30	Total/NA	Solid	Extract Aliquot	336001

Analysis Batch: 337081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-5	NOR-14-S-20-30	Total/NA	Solid	537 IDA	336015
410-106099-6	NOR-14-S-30-40	Total/NA	Solid	537 IDA	336015

LCMS (Continued)

Analysis Batch: 337081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-7	NOR-14-S-40-50	Total/NA	Solid	537 IDA	336015
410-106099-12	NOR-15-S-20-30	Total/NA	Solid	537 IDA	336015
410-106099-13	NOR-15-S-30-40	Total/NA	Solid	537 IDA	336015
410-106099-14	NOR-15-S-40-50	Total/NA	Solid	537 IDA	336015
410-106099-15	NOR-15-S-50-55	Total/NA	Solid	537 IDA	336015
MB 410-336001/1-B	Method Blank	Total/NA	Solid	537 IDA	336015
LCS 410-336001/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	336015
410-106099-5 MS	NOR-14-S-20-30	Total/NA	Solid	537 IDA	336015
410-106099-5 MSD	NOR-14-S-20-30	Total/NA	Solid	537 IDA	336015

General Chemistry

Analysis Batch: 318727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-1	NOR-17-S-00-01	Total/NA	Solid	Moisture	
410-106099-8	NOR-15-S-04-06	Total/NA	Solid	Moisture	

Analysis Batch: 324130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-9	NOR-15-S-06-08	Total/NA	Solid	Moisture	
410-106099-10	NOR-15-S-08-10	Total/NA	Solid	Moisture	
410-106099-11	NOR-15-S-15-20	Total/NA	Solid	Moisture	

Analysis Batch: 334945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106099-5	NOR-14-S-20-30	Total/NA	Solid	Moisture	
410-106099-6	NOR-14-S-30-40	Total/NA	Solid	Moisture	
410-106099-7	NOR-14-S-40-50	Total/NA	Solid	Moisture	
410-106099-12	NOR-15-S-20-30	Total/NA	Solid	Moisture	
410-106099-13	NOR-15-S-30-40	Total/NA	Solid	Moisture	
410-106099-14	NOR-15-S-40-50	Total/NA	Solid	Moisture	
410-106099-15	NOR-15-S-50-55	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 410-106099-1

Client Sample ID: NOR-17-S-00-01
Lab Sample ID: 410-106099-1
Date Collected: 11/14/22 09:25
Matrix: Solid
Date Received: 11/17/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	318727	UVJN	ELLE	11/17/22 14:01

Client Sample ID: NOR-17-S-00-01
Lab Sample ID: 410-106099-1
Date Collected: 11/14/22 09:25
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 16:25

Client Sample ID: NOR-14-S-20-30
Lab Sample ID: 410-106099-5
Date Collected: 11/14/22 10:20
Matrix: Solid
Date Received: 11/17/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	334945	UVJN	ELLE	01/12/23 12:51

Client Sample ID: NOR-14-S-20-30
Lab Sample ID: 410-106099-5
Date Collected: 11/14/22 10:20
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			336001	X5YV	ELLE	01/16/23 18:00
Total/NA	Cleanup	Extract Aliquot			336015	X5YV	ELLE	01/16/23 22:40
Total/NA	Analysis	537 IDA		1	337081	MT26	ELLE	01/20/23 03:25

Client Sample ID: NOR-14-S-30-40
Lab Sample ID: 410-106099-6
Date Collected: 11/14/22 10:45
Matrix: Solid
Date Received: 11/17/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	334945	UVJN	ELLE	01/12/23 12:51

Client Sample ID: NOR-14-S-30-40
Lab Sample ID: 410-106099-6
Date Collected: 11/14/22 10:45
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			336001	X5YV	ELLE	01/16/23 18:00
Total/NA	Cleanup	Extract Aliquot			336015	X5YV	ELLE	01/16/23 22:40
Total/NA	Analysis	537 IDA		1	337081	MT26	ELLE	01/20/23 03:58

Lab Chronicle

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

Job ID: 410-106099-1

Client Sample ID: NOR-14-S-40-50
Lab Sample ID: 410-106099-7
Date Collected: 11/14/22 11:30
Matrix: Solid
Date Received: 11/17/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	334945	UVJN	ELLE	01/12/23 12:51

Client Sample ID: NOR-14-S-40-50
Lab Sample ID: 410-106099-7
Date Collected: 11/14/22 11:30
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			336001	X5YV	ELLE	01/16/23 18:00
Total/NA	Cleanup	Extract Aliquot			336015	X5YV	ELLE	01/16/23 22:40
Total/NA	Analysis	537 IDA		1	337081	MT26	ELLE	01/20/23 04:09

Client Sample ID: NOR-15-S-04-06
Lab Sample ID: 410-106099-8
Date Collected: 11/14/22 13:25
Matrix: Solid
Date Received: 11/17/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	318727	UVJN	ELLE	11/17/22 14:01

Client Sample ID: NOR-15-S-04-06
Lab Sample ID: 410-106099-8
Date Collected: 11/14/22 13:25
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			320180	UJSZ	ELLE	11/22/22 09:33
Total/NA	Cleanup	Extract Aliquot			320208	UJSZ	ELLE	11/22/22 10:27
Total/NA	Analysis	537 IDA		1	320694	JVK6	ELLE	11/23/22 16:36

Client Sample ID: NOR-15-S-06-08
Lab Sample ID: 410-106099-9
Date Collected: 11/14/22 13:27
Matrix: Solid
Date Received: 11/17/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	324130	UVJN	ELLE	12/06/22 12:39

Client Sample ID: NOR-15-S-06-08
Lab Sample ID: 410-106099-9
Date Collected: 11/14/22 13:27
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			325443	RC3V	ELLE	12/09/22 10:19
Total/NA	Cleanup	Extract Aliquot			325461	RC3V	ELLE	12/09/22 11:18
Total/NA	Analysis	537 IDA		1	326079	JVK6	ELLE	12/12/22 20:33
Total/NA	Prep	537 (mod)	RE		327010	PR5J	ELLE	12/14/22 11:03
Total/NA	Cleanup	Extract Aliquot	RE		327050	PR5J	ELLE	12/14/22 12:35
Total/NA	Analysis	537 IDA	RE	1	328561	PY4D	ELLE	12/19/22 16:31

Client Sample ID: NOR-15-S-08-10
Date Collected: 11/14/22 13:30
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	324130	UVJN	ELLE	12/06/22 12:39

Client Sample ID: NOR-15-S-08-10
Date Collected: 11/14/22 13:30
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-10
Matrix: Solid
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			325443	RC3V	ELLE	12/09/22 10:19
Total/NA	Cleanup	Extract Aliquot			325461	RC3V	ELLE	12/09/22 11:18
Total/NA	Analysis	537 IDA		1	326079	JVK6	ELLE	12/12/22 20:44

Client Sample ID: NOR-15-S-15-20
Date Collected: 11/14/22 13:45
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	324130	UVJN	ELLE	12/06/22 12:39

Client Sample ID: NOR-15-S-15-20
Date Collected: 11/14/22 13:45
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-11
Matrix: Solid
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			325443	RC3V	ELLE	12/09/22 10:19
Total/NA	Cleanup	Extract Aliquot			325461	RC3V	ELLE	12/09/22 11:18
Total/NA	Analysis	537 IDA		1	326079	JVK6	ELLE	12/12/22 20:55
Total/NA	Prep	537 (mod)	RE		327010	PR5J	ELLE	12/14/22 11:03
Total/NA	Cleanup	Extract Aliquot	RE		327050	PR5J	ELLE	12/14/22 12:35
Total/NA	Analysis	537 IDA	RE	1	328561	PY4D	ELLE	12/19/22 16:43

Client Sample ID: NOR-15-S-20-30
Date Collected: 11/14/22 14:00
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	334945	UVJN	ELLE	01/12/23 12:51

Client Sample ID: NOR-15-S-20-30
Date Collected: 11/14/22 14:00
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-12
Matrix: Solid
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			336001	X5YV	ELLE	01/16/23 18:00
Total/NA	Cleanup	Extract Aliquot			336015	X5YV	ELLE	01/16/23 22:40
Total/NA	Analysis	537 IDA		1	337081	MT26	ELLE	01/20/23 04:20

Lab Chronicle

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

Job ID: 410-106099-1

Client Sample ID: NOR-15-S-30-40
Lab Sample ID: 410-106099-13
Date Collected: 11/14/22 14:10
Matrix: Solid
Date Received: 11/17/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	334945	UVJN	ELLE	01/12/23 12:51

Client Sample ID: NOR-15-S-30-40
Lab Sample ID: 410-106099-13
Date Collected: 11/14/22 14:10
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			336001	X5YV	ELLE	01/16/23 18:00
Total/NA	Cleanup	Extract Aliquot			336015	X5YV	ELLE	01/16/23 22:40
Total/NA	Analysis	537 IDA		1	337081	MT26	ELLE	01/20/23 04:31

Client Sample ID: NOR-15-S-40-50
Lab Sample ID: 410-106099-14
Date Collected: 11/14/22 14:20
Matrix: Solid
Date Received: 11/17/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	334945	UVJN	ELLE	01/12/23 12:51

Client Sample ID: NOR-15-S-40-50
Lab Sample ID: 410-106099-14
Date Collected: 11/14/22 14:20
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			336001	X5YV	ELLE	01/16/23 18:00
Total/NA	Cleanup	Extract Aliquot			336015	X5YV	ELLE	01/16/23 22:40
Total/NA	Analysis	537 IDA		1	337081	MT26	ELLE	01/20/23 04:42

Client Sample ID: NOR-15-S-50-55
Lab Sample ID: 410-106099-15
Date Collected: 11/14/22 14:30
Matrix: Solid
Date Received: 11/17/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	334945	UVJN	ELLE	01/12/23 12:51

Client Sample ID: NOR-15-S-50-55
Lab Sample ID: 410-106099-15
Date Collected: 11/14/22 14:30
Matrix: Solid
Date Received: 11/17/22 10:05
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			336001	X5YV	ELLE	01/16/23 18:00
Total/NA	Cleanup	Extract Aliquot			336015	X5YV	ELLE	01/16/23 22:40
Total/NA	Analysis	537 IDA		1	337081	MT26	ELLE	01/20/23 04:53

Lab Chronicle

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

Job ID: 410-106099-1

Client Sample ID: EB-111422
Date Collected: 11/14/22 14:50
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			320990	K9VR	ELLE	11/27/22 15:52
Total/NA	Analysis	537 IDA		1	323805	QD9Y	ELLE	12/06/22 08:33

Client Sample ID: RW6-73-GW-76
Date Collected: 11/15/22 09:10
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)	DL		321038	RC3V	ELLE	11/28/22 07:14
Total/NA	Analysis	537 IDA	DL	10	323404	PY4D	ELLE	12/04/22 06:03
Total/NA	Prep	EPA 537 (mod)			321038	RC3V	ELLE	11/28/22 07:14
Total/NA	Analysis	537 IDA		1	324533	DTA4	ELLE	12/07/22 16:37

Client Sample ID: FB-111522
Date Collected: 11/15/22 10:00
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			321038	RC3V	ELLE	11/28/22 07:14
Total/NA	Analysis	537 IDA		1	323404	PY4D	ELLE	12/04/22 06:14

Client Sample ID: IES-WFCT-1122
Date Collected: 11/16/22 07:45
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			321492	RC3V	ELLE	11/29/22 07:29
Total/NA	Analysis	537 IDA		1	325226	PY4D	ELLE	12/08/22 21:03

Client Sample ID: IES-WFCT-1122 DUP
Date Collected: 11/16/22 07:45
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106099-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			321492	RC3V	ELLE	11/29/22 07:29
Total/NA	Analysis	537 IDA		1	325226	PY4D	ELLE	12/08/22 21:14

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-106099-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	06-30-23

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
537 IDA	EPA 537 (mod)	Water	10:2 FTS
537 IDA	EPA 537 (mod)	Water	11Cl-PF3OUdS
537 IDA	EPA 537 (mod)	Water	4:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (mod)	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (mod)	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (mod)	Water	9Cl-PF3ONS
537 IDA	EPA 537 (mod)	Water	DONA
537 IDA	EPA 537 (mod)	Water	HFPODA
537 IDA	EPA 537 (mod)	Water	NEtFOSA

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

Job ID: 410-106099-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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
537 IDA	EPA 537 (mod)	Water	NEtFOSAA
537 IDA	EPA 537 (mod)	Water	NEtFOSE
537 IDA	EPA 537 (mod)	Water	NMeFOSA
537 IDA	EPA 537 (mod)	Water	NMeFOSAA
537 IDA	EPA 537 (mod)	Water	NMeFOSE
537 IDA	EPA 537 (mod)	Water	Perfluorobutanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorobutanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorodecanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorodecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	EPA 537 (mod)	Water	Perfluorododecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluoroheptanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluoroheptanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorohexadecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorohexanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorohexanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorononanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorononanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorooctadecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorooctanesulfonamide
537 IDA	EPA 537 (mod)	Water	Perfluorooctanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluorooctanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluoropentanesulfonic acid
537 IDA	EPA 537 (mod)	Water	Perfluoropentanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorotetradecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluorotridecanoic acid
537 IDA	EPA 537 (mod)	Water	Perfluoroundecanoic acid
Moisture		Solid	Percent Moisture

Method Summary

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

Job ID: 410-106099-1

Method	Method Description	Protocol	Laboratory
537 IDA	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 Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

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

Job ID: 410-106099-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-106099-1	NOR-17-S-00-01	Solid	11/14/22 09:25	11/17/22 10:05
410-106099-5	NOR-14-S-20-30	Solid	11/14/22 10:20	11/17/22 10:05
410-106099-6	NOR-14-S-30-40	Solid	11/14/22 10:45	11/17/22 10:05
410-106099-7	NOR-14-S-40-50	Solid	11/14/22 11:30	11/17/22 10:05
410-106099-8	NOR-15-S-04-06	Solid	11/14/22 13:25	11/17/22 10:05
410-106099-9	NOR-15-S-06-08	Solid	11/14/22 13:27	11/17/22 10:05
410-106099-10	NOR-15-S-08-10	Solid	11/14/22 13:30	11/17/22 10:05
410-106099-11	NOR-15-S-15-20	Solid	11/14/22 13:45	11/17/22 10:05
410-106099-12	NOR-15-S-20-30	Solid	11/14/22 14:00	11/17/22 10:05
410-106099-13	NOR-15-S-30-40	Solid	11/14/22 14:10	11/17/22 10:05
410-106099-14	NOR-15-S-40-50	Solid	11/14/22 14:20	11/17/22 10:05
410-106099-15	NOR-15-S-50-55	Solid	11/14/22 14:30	11/17/22 10:05
410-106099-16	EB-111422	Water	11/14/22 14:50	11/17/22 10:05
410-106099-17	RW6-73-GW-76	Water	11/15/22 09:10	11/17/22 10:05
410-106099-18	FB-111522	Water	11/15/22 10:00	11/17/22 10:05
410-106099-19	IES-WFCT-1122	Water	11/16/22 07:45	11/17/22 10:05
410-106099-20	IES-WFCT-1122 DUP	Water	11/16/22 07:45	11/17/22 10:05

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410-106099 Chain of Custody

Chain of Custody Record

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Client:	Sampler: M. KENNEY / K. SANTARPIO	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68375-7540.2
Client Contact: Mr. Matthew Kenney	Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 2 of 3
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, Y - Trizma, Z - other (specify)
City: Concord	TAT Requested (days): STANDARD (see notes section)			
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)	PFC_IDA - 36 PFAS	Moisture - Moisture	Total Number of containers	Special Instructions/Note:
		Ion Codes					N	N		
NOR-17-S-00-01	11/14/22	0925	G	Solid			X	X		5 DAY TAT
NOR-17-S-01-02		0928		Solid						HOLD
NOR-17-S-03-04		0930		Solid						HOLD
NOR-17-S-03-04 DUP		0930		Solid						HOLD
NOR-14-S-20-30		1020		Solid						HOLD
NOR-14-S-30-40		1045		Solid						HOLD
NOR-14-S-40-50		1130		Solid						HOLD
NOR-15-S-04-06		1325		Solid						5 DAY TAT
NOR-15-S-06-08		1328		Solid						HOLD
NOR-15-S-08-10		1330		Solid						HOLD
NOR-15-S-15-20		1345		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: 11/16/22 1520	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: 11/17/22 10:05	Company: ECET		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.2

Ver: 06/08/2021

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

Chain of Custody Record

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Client Information	Sampler: MK/KS	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68375-7540.3
Client Contact: Mr. Matthew Kenney	Phone:	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin:	Page: 2 2 Page 3 of 3
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, Y - Trizma, Z - other (specify), Other:
City: Concord	TAT Requested (days):			
State, Zip: NH, 03301	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 0102971			
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)	PFC_IDA - 36 PFAS	Moisture - Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N		
NOR-15-S-20-30	11/14/22	1400	6	Solid		X	X		HOLD
NOR-15-S-30-40		1410		Solid					HOLD
NOR-15-S-40-50		1420		Solid					HOLD
NOR-15-S-50-55		1430		Solid					HOLD
EB-111422		1450		~~Solid~~ WATER					DRILL ROD SHOE
RW6-73-GW-76	11/15/22	0910		~~Solid~~ WATER					
FB-111522	11/15/22	1000		~~Solid~~ WATER					K. SANTAKPIO
IES-WFCT-1122	11/16/22	0745		~~Solid~~ WATER					
IES-WFCT-1122 DUP	11/16/22	0745		~~Solid~~ WATER					
				~~Solid~~					
				~~Solid~~					

MK

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
	11/16/22 1520	WESTON			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/17/22 10:05	Company: EUET

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.2

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-106099-1

Login Number: 106099 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: McBeth, Jessica

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.	False	Refer to Job Narrative for details.
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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-106099-1
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:** 01/20/2023

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-106101-1

WESTON SAMPLE IDs: SK-SPGT-1122, WG-SPGT-1122, BI-SPGT-1122, BI-SPGT-1122 DUP, FB-111622, HL-PT-1122

Data Reviewed	Fraction				Comments
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				
Preservation/Log Sheet	√				
Holding Time	√				Samples re-extracted out of hold for LCS failures. LCS passed re-extract. Original extraction reported in hold.
Field Blanks (Trip/Equip.)	NA				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	LCSD 410-321183/3-A				PFHxA, PFHpA, PFOS, PFNA, PFBS recovered below the acceptance limits in the LCSD. The LCS recovered within limits. Samples were re-extracted out of hold and the LCS/LCSD passed. Based on professional judgement, non-detects are qualified as estimated UJ, detects are qualified as estimated J in the associated samples.
ICAL/ICV/CCV	√				
Lab Duplicates	NA				
Field Duplicates	√				BI-SPGT-1122 and BI-SPGT-1122 DUP
Isotope Dilution Recoveries	FB-111622				d5-NEtFOSAA, 13C2-PFDA, and 13C2-PFHxA low: qualify all non-detects as estimated UJ.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: J, UJ

Data Reviewer Initials: RBE
Date: 2/7/2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Generated 12/13/2022 8:42:42 AM Revision 1

JOB DESCRIPTION

Nantucket

JOB NUMBER

410-106101-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

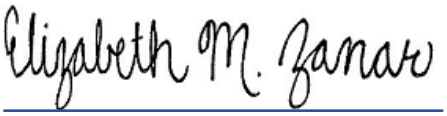
See page two for job notes and contact information.

my EOL

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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12/13/2022 8:42:42 AM
Revision 1

Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

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

Job ID: 410-106101-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
cn	Refer to Case Narrative for further detail
S1-	Surrogate recovery exceeds control limits, low 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

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

Job ID: 410-106101-1

Job ID: 410-106101-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-106101-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 12/12/2022. The report (revision 1) is being revised due to: the MA MCP Checklist being added to the report.

Receipt
The samples were received on 11/17/2022 10:05 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 0.6º C.

LCMS
Method 537 DW: The recovery for a target analyte(s) Perfluorohexanoic acid, Perfluoroheptanoic acid, Perfluorooctanoic acid, Perfluorononanoic acid and Perfluorobutanesulfonic acid in the laboratory control spike samples associated with the following samples: SK-SPGT-1122 (410-106101-1), WG-SPGT-1122 (410-106101-2), BI-SPGT-1122 (410-106101-3), BI-SPGT-1122 DUP (410-106101-4), FB-111622 (410-106101-5) and HL-PT-1122 (410-106101-6)is outside the QC acceptance limits.The following action was taken: This samples were re-extracted outside the required holding time and the recovery for a target analyte(s) in the laboratory control spike samples is within the QC acceptance limits.

Method 537 DW: The recovery for the following surrogate(s): d5-NEtFOSAA, 13C2 PFDA and 13C2 PFHxA in the following sample: FB-111622 (410-106101-5) is outside of 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.

Method 537 DW: The recovery for the labeled isotope(s) 13C2 PFHxA in the laboratory control spike samples associated with the following samples: SK-SPGT-1122 (410-106101-1), WG-SPGT-1122 (410-106101-2), BI-SPGT-1122 (410-106101-3), BI-SPGT-1122 DUP (410-106101-4), FB-111622 (410-106101-5) and HL-PT-1122 (410-106101-6) is outside the QC acceptance limits. The following action was taken: This sample(s) was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted laboratory control spike sample(s) is within the 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: 410-106101-1

Client Sample ID: SK-SPGT-1122 — Lab Sample ID: 410-106101-1

No Detections.

Client Sample ID: WG-SPGT-1122 — Lab Sample ID: 410-106101-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.2	*- cn	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.9	*- cn	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: BI-SPGT-1122 — Lab Sample ID: 410-106101-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	8.9	*- cn	1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	3.2	*- cn	1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	17		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: BI-SPGT-1122 DUP — Lab Sample ID: 410-106101-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	9.3	*- cn	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	3.5	*- cn	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	16		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	4.8		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-111622 — Lab Sample ID: 410-106101-5

No Detections.

Client Sample ID: HL-PT-1122 — Lab Sample ID: 410-106101-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	2.3		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SK-SPGT-1122

Lab Sample ID: 410-106101-1

Date Collected: 11/16/22 08:45

Matrix: Drinking Water

Date Received: 11/17/22 10:05

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	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluoroheptanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluorooctanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluorononanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluorobutanesulfonic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
NEtFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
NMeFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*76*		*70 - 130*	*11/28/22 10:27*	*11/30/22 12:52*	*1*
13C2 PFDA	*94*		*70 - 130*	*11/28/22 10:27*	*11/30/22 12:52*	*1*
13C2 PFHxA	*91*	*cn*	*70 - 130*	*11/28/22 10:27*	*11/30/22 12:52*	*1*

Client Sample ID: WG-SPGT-1122

Lab Sample ID: 410-106101-2

Date Collected: 11/16/22 09:10

Matrix: Drinking Water

Date Received: 11/17/22 10:05

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.2**	***- cn**	1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluoroheptanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluorooctanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluorononanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluorobutanesulfonic acid	**2.9**	***- cn**	1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluorohexanesulfonic acid	**5.0**		1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
NEtFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
NMeFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*11/28/22 10:27*	*11/30/22 13:03*	*1*
13C2 PFDA	*99*		*70 - 130*	*11/28/22 10:27*	*11/30/22 13:03*	*1*
13C2 PFHxA	*98*	*cn*	*70 - 130*	*11/28/22 10:27*	*11/30/22 13:03*	*1*

Client Sample ID: BI-SPGT-1122

Date Collected: 11/16/22 09:30
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106101-3

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	**8.9**	***- cn**	1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluoroheptanoic acid	**3.2**	***- cn**	1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluorooctanoic acid	<1.6	*- cn	1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluorononanoic acid	<1.6	*- cn	1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluorobutanesulfonic acid	<1.6	*- cn	1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluorohexanesulfonic acid	**17**		1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluorooctanesulfonic acid	**4.8**		1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
NEtFOSAA	<1.6		1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
NMeFOSAA	<1.6		1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		11/28/22 10:27	11/30/22 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*11/28/22 10:27*	*11/30/22 13:15*	*1*
13C2 PFDA	*98*		*70 - 130*	*11/28/22 10:27*	*11/30/22 13:15*	*1*
13C2 PFHxA	*95*	*cn*	*70 - 130*	*11/28/22 10:27*	*11/30/22 13:15*	*1*

Client Sample ID: BI-SPGT-1122 DUP

Date Collected: 11/16/22 09:30
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106101-4

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	**9.3**	***- cn**	1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluoroheptanoic acid	**3.5**	***- cn**	1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluorooctanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluorononanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluorobutanesulfonic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluorohexanesulfonic acid	**16**		1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluorooctanesulfonic acid	**4.8**		1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
NEtFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
NMeFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*106*		*70 - 130*	*11/28/22 10:27*	*11/30/22 13:26*	*1*
13C2 PFDA	*101*		*70 - 130*	*11/28/22 10:27*	*11/30/22 13:26*	*1*
13C2 PFHxA	*97*	*cn*	*70 - 130*	*11/28/22 10:27*	*11/30/22 13:26*	*1*

Client Sample ID: FB-111622

Lab Sample ID: 410-106101-5

Date Collected: 11/16/22 12:00

Matrix: Drinking Water

Date Received: 11/17/22 10:05

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	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluoroheptanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluorooctanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluorononanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluorobutanesulfonic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
NEtFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
NMeFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*50*	*S1- cn*	*70 - 130*	*11/28/22 10:27*	*11/30/22 13:38*	*1*
13C2 PFDA	*63*	*S1- cn*	*70 - 130*	*11/28/22 10:27*	*11/30/22 13:38*	*1*
13C2 PFHxA	*8*	*S1- cn*	*70 - 130*	*11/28/22 10:27*	*11/30/22 13:38*	*1*

Client Sample ID: HL-PT-1122

Lab Sample ID: 410-106101-6

Date Collected: 11/16/22 12:05

Matrix: Drinking Water

Date Received: 11/17/22 10:05

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	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluoroheptanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluorooctanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluorononanoic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluorobutanesulfonic acid	<1.7	*- cn	1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluorohexanesulfonic acid	**2.3**		1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
NEtFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
NMeFOSAA	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		11/28/22 10:27	11/30/22 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*94*		*70 - 130*	*11/28/22 10:27*	*11/30/22 13:50*	*1*
13C2 PFDA	*92*		*70 - 130*	*11/28/22 10:27*	*11/30/22 13:50*	*1*
13C2 PFHxA	*89*	*cn*	*70 - 130*	*11/28/22 10:27*	*11/30/22 13:50*	*1*

Surrogate Summary

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

Job ID: 410-106101-1

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)					
LCS 410-321183/2-A	Lab Control Sample	99	98	97					
LCSD 410-321183/3-A	Lab Control Sample Dup	86	84	69 S1-					
MB 410-321183/1-A	Method Blank	90	92	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 410-321183/1-A
Matrix: Drinking Water
Analysis Batch: 322150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluorononanoic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
NEtFOSAA	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
NMeFOSAA	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		11/28/22 10:27	11/30/22 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*90*		*70 - 130*	*11/28/22 10:27*	*11/30/22 12:06*	*1*
13C2 PFDA	*92*		*70 - 130*	*11/28/22 10:27*	*11/30/22 12:06*	*1*
13C2 PFHxA	*88*		*70 - 130*	*11/28/22 10:27*	*11/30/22 12:06*	*1*

Lab Sample ID: LCS 410-321183/2-A
Matrix: Drinking Water
Analysis Batch: 322150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	20.5	16.5		ng/L		80	70 - 130
Perfluoroheptanoic acid	20.5	17.7		ng/L		86	70 - 130
Perfluorooctanoic acid	20.5	17.7		ng/L		87	70 - 130
Perfluorononanoic acid	20.5	17.5		ng/L		86	70 - 130
Perfluorodecanoic acid	20.5	16.9		ng/L		82	70 - 130
Perfluorotridecanoic acid	20.5	16.8		ng/L		82	70 - 130
Perfluorotetradecanoic acid	20.5	16.4		ng/L		80	70 - 130
Perfluorobutanesulfonic acid	18.1	13.9		ng/L		77	70 - 130
Perfluorohexanesulfonic acid	18.7	15.8		ng/L		84	70 - 130
Perfluorooctanesulfonic acid	19.0	15.6		ng/L		82	70 - 130
NEtFOSAA	20.5	17.0		ng/L		83	70 - 130
NMeFOSAA	20.5	14.5		ng/L		71	70 - 130
Perfluoroundecanoic acid	20.5	16.7		ng/L		82	70 - 130
Perfluorododecanoic acid	20.5	16.1		ng/L		79	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*99*		*70 - 130*
13C2 PFDA	*98*		*70 - 130*
13C2 PFHxA	*97*		*70 - 130*

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

Lab Sample ID: LCSD 410-321183/3-A
Matrix: Drinking Water
Analysis Batch: 322150

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321183

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	12.8	*-	ng/L		62	70 - 130	25	30
Perfluoroheptanoic acid			20.5	13.9	*-	ng/L		68	70 - 130	24	30
Perfluorooctanoic acid			20.5	14.0	*-	ng/L		69	70 - 130	23	30
Perfluorononanoic acid			20.5	13.9	*-	ng/L		68	70 - 130	23	30
Perfluorodecanoic acid			20.5	14.7		ng/L		72	70 - 130	14	30
Perfluorotridecanoic acid			20.5	16.1		ng/L		79	70 - 130	4	30
Perfluorotetradecanoic acid			20.5	18.2		ng/L		89	70 - 130	10	30
Perfluorobutanesulfonic acid			18.1	10.3	*-	ng/L		57	70 - 130	30	30
Perfluorohexanesulfonic acid			18.7	13.1		ng/L		70	70 - 130	18	30
Perfluorooctanesulfonic acid			19.0	13.2		ng/L		70	70 - 130	17	30
NEtFOSAA			20.5	15.7		ng/L		77	70 - 130	8	30
NMeFOSAA			20.5	14.8		ng/L		72	70 - 130	2	30
Perfluoroundecanoic acid			20.5	16.4		ng/L		80	70 - 130	2	30
Perfluorododecanoic acid			20.5	15.5		ng/L		76	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*86*		*70 - 130*
13C2 PFDA	*84*		*70 - 130*
13C2 PFHxA	*69*	*S1-*	*70 - 130*

QC Association Summary

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

Job ID: 410-106101-1

LCMS

Prep Batch: 321183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106101-1	SK-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-2	WG-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-3	BI-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-4	BI-SPGT-1122 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-5	FB-111622	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-6	HL-PT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-321183/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-321183/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-321183/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 322150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106101-1	SK-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	321183
410-106101-2	WG-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	321183
410-106101-3	BI-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	321183
410-106101-4	BI-SPGT-1122 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	321183
410-106101-5	FB-111622	Total/NA	Drinking Water	EPA 537 Ver 1.1	321183
410-106101-6	HL-PT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	321183
MB 410-321183/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	321183
LCS 410-321183/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	321183
LCSD 410-321183/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	321183

Prep Batch: 324127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106101-1 - RE	SK-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-2 - RE	WG-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-3 - RE	BI-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-4 - RE	BI-SPGT-1122 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-5 - RE	FB-111622	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-106101-6 - RE	HL-PT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-324127/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-324127/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-324127/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 325103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-106101-1 - RE	SK-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	324127
410-106101-2 - RE	WG-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	324127
410-106101-3 - RE	BI-SPGT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	324127
410-106101-4 - RE	BI-SPGT-1122 DUP	Total/NA	Drinking Water	EPA 537 Ver 1.1	324127
410-106101-5 - RE	FB-111622	Total/NA	Drinking Water	EPA 537 Ver 1.1	324127
410-106101-6 - RE	HL-PT-1122	Total/NA	Drinking Water	EPA 537 Ver 1.1	324127
MB 410-324127/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	324127
LCS 410-324127/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	324127
LCSD 410-324127/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	324127

Lab Chronicle

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

Job ID: 410-106101-1

Client Sample ID: SK-SPGT-1122
Date Collected: 11/16/22 08:45
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106101-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			321183	HQ8B	ELLE	11/28/22 10:27
Total/NA	Analysis	EPA 537 Ver 1.1		1	322150	DCS9	ELLE	11/30/22 12:52
Total/NA	Prep	EPA 537 Ver 1.1	RE		324127	HQ8B	ELLE	12/06/22 12:37
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	325103	DCS9	ELLE	12/07/22 19:02

Client Sample ID: WG-SPGT-1122
Date Collected: 11/16/22 09:10
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106101-2
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			321183	HQ8B	ELLE	11/28/22 10:27
Total/NA	Analysis	EPA 537 Ver 1.1		1	322150	DCS9	ELLE	11/30/22 13:03
Total/NA	Prep	EPA 537 Ver 1.1	RE		324127	HQ8B	ELLE	12/06/22 12:37
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	325103	DCS9	ELLE	12/07/22 19:13

Client Sample ID: BI-SPGT-1122
Date Collected: 11/16/22 09:30
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106101-3
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			321183	HQ8B	ELLE	11/28/22 10:27
Total/NA	Analysis	EPA 537 Ver 1.1		1	322150	DCS9	ELLE	11/30/22 13:15
Total/NA	Prep	EPA 537 Ver 1.1	RE		324127	HQ8B	ELLE	12/06/22 12:37
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	325103	DCS9	ELLE	12/07/22 19:25

Client Sample ID: BI-SPGT-1122 DUP
Date Collected: 11/16/22 09:30
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106101-4
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			321183	HQ8B	ELLE	11/28/22 10:27
Total/NA	Analysis	EPA 537 Ver 1.1		1	322150	DCS9	ELLE	11/30/22 13:26
Total/NA	Prep	EPA 537 Ver 1.1	RE		324127	HQ8B	ELLE	12/06/22 12:37
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	325103	DCS9	ELLE	12/07/22 19:37

Client Sample ID: FB-111622
Date Collected: 11/16/22 12:00
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106101-5
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			321183	HQ8B	ELLE	11/28/22 10:27
Total/NA	Analysis	EPA 537 Ver 1.1		1	322150	DCS9	ELLE	11/30/22 13:38
Total/NA	Prep	EPA 537 Ver 1.1	RE		324127	HQ8B	ELLE	12/06/22 12:37
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	325103	DCS9	ELLE	12/07/22 19:48

Lab Chronicle

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

Job ID: 410-106101-1

Client Sample ID: HL-PT-1122

Date Collected: 11/16/22 12:05
Date Received: 11/17/22 10:05

Lab Sample ID: 410-106101-6

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 Ver 1.1			321183	HQ8B	ELLE	11/28/22 10:27
Total/NA	Analysis	EPA 537 Ver 1.1		1	322150	DCS9	ELLE	11/30/22 13:50
Total/NA	Prep	EPA 537 Ver 1.1	RE		324127	HQ8B	ELLE	12/06/22 12:37
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	325103	DCS9	ELLE	12/07/22 20:00

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-106101-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	06-30-23

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: 410-106101-1

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 Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

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

Job ID: 410-106101-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-106101-1	SK-SPGT-1122	Drinking Water	11/16/22 08:45	11/17/22 10:05
410-106101-2	WG-SPGT-1122	Drinking Water	11/16/22 09:10	11/17/22 10:05
410-106101-3	BI-SPGT-1122	Drinking Water	11/16/22 09:30	11/17/22 10:05
410-106101-4	BI-SPGT-1122 DUP	Drinking Water	11/16/22 09:30	11/17/22 10:05
410-106101-5	FB-111622	Drinking Water	11/16/22 12:00	11/17/22 10:05
410-106101-6	HL-PT-1122	Drinking Water	11/16/22 12:05	11/17/22 10:05

410-106101 Chain of Custody

ies Environme

Chain of Custody Record

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Client Contact: Mr. Matthew Kenney	Sampler: K. SANTARPIO / M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-68375-7540.4
Company: Weston Solutions, Inc.	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.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: 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, Y - Trizma, Z - other (specify)
State, Zip: NH, 03301	TAT Requested (days): STANDARD			
Phone: 860 712 2684	Compliance Project: Δ Yes Δ No			Other:
Email: Matthew.Kenney@WestonSolutions.com	PO #: 0102971			
Project Name: Nantucket	WO #:			
Site:	Project #: 41001960			
	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)	PFC_IDA - 36 PFAS	Moisture - Moisture	PFAS IN DRINKING WATER	Total Number of containers	Special Instructions/Note:
SK-SPGT-1122	11/16/22	0845	G	~~Solid~~ WATER					X		
WG-SPGT-1122		0910		~~Solid~~ WATER							
BI-SPGT-1122		0930		~~Solid~~ WATER							
BI-SPGT-1122 DUP		0930		~~Solid~~ WATER							
FB-111622		1200		~~Solid~~ WATER							K. SANTARPIO
HL-PT-1122		1205		~~Solid~~ WATER							
				Solid							
				Solid							
	MK			Solid							
				Solid							
				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: 11/16/22 1515	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: 11/17/22 1015	Company: FEDEX	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.6

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-106101-1

Login Number: 106101 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: McBeth, Jessica

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-106101-1
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:** 12/13/2022

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-108757-1

WESTON SAMPLE IDs: FFGAC-1222-EFF, FFGAC-1222-MID, FFGAC-1222-INF, FFGAC-1222-INF DUP, FB-120822

Data Reviewed	Fraction				Comments
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				
Preservation/Log Sheet	√				
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	√				
ICAL/ICV/CCV	√				
Lab Duplicates	NA				
Field Duplicates	√				FFGAC-1222-INF and FFGAC-1222-INF DUP
Isotope Dilution Recoveries	FFGAC-1222-INF FFGAC-1222-INF dup				FFGAC-1222-INF and FFGAC-1222-INF DUP: M-2 4:2 FTS high: qualify 4:2 FTS as estimated non-detect, UJ. FFGAC-1222-INF DUP: M-2 6:2 FTS and C9-PFNA high: qualify 6:2 FTS and PFNA as estimated J.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed NA = Not Applicable Qualifiers Used: UJ, J

Data Reviewer Initials: RBE

Date: 2/7/2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Generated 1/11/2023 7:33:36 AM

JOB DESCRIPTION

Nantucket

JOB NUMBER

410-108757-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

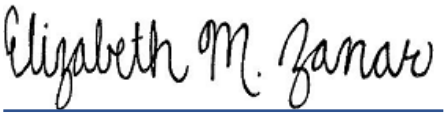
See page two for job notes and contact information.

my EOL

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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1/11/2023 7:33:36 AM

Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

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

Job ID: 410-108757-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail

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

Job ID: 410-108757-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-108757-1

Receipt
The samples were received on 12/10/2022 10:00 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
Method PFC_IDA: The recovery for the labeled isotope: M2-4:2 FTS in the following sample: FFGAC-1222-INF (410-108757-3) 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) M2-4:2 FTS, M2-6:2 FTS and 13C9 PFNA in the following sample: FFGAC-1222-INF DUP (410-108757-4) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) M2-4:2 FTS, M2-6:2 FTS and 13C9 PFNA was within 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: 410-108757-1

Client Sample ID: FFGAC-1222-EFF — Lab Sample ID: 410-108757-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
10:2 FTS	4.4		4.2		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: FFGAC-1222-MID — Lab Sample ID: 410-108757-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
10:2 FTS	4.8		4.3		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: FFGAC-1222-INF — Lab Sample ID: 410-108757-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	8.5		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	5.2		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	15		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	6.1		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorodecanoic acid	9.3		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorotetradecanoic acid	1.7		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
10:2 FTS	15		4.3		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	9.1		4.3		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	2.6		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorododecanoic acid	3.8		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroundecanoic acid	4.7		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	29		4.3		ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	22		2.6		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: FFGAC-1222-INF DUP — Lab Sample ID: 410-108757-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	8.4		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	5.2		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	14		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	5.9		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorodecanoic acid	9.4		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorotetradecanoic acid	1.7		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
10:2 FTS	17		4.3		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	9.3		4.3		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	2.7		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorododecanoic acid	4.0		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroundecanoic acid	4.6		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	31		4.3		ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	25		2.6		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: FB-120822 — Lab Sample ID: 410-108757-5

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 410-108757-1

Client Sample ID: FFGAC-1222-EFF

Date Collected: 12/08/22 07:30
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108757-1

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorononanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
NEtFOSAA	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:13	1
NMeFOSAA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
10:2 FTS	**4.4**		4.2		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorobutanoic acid	<4.2		4.2		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
NMeFOSE	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:13	1
NMeFOSA	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:13	1
NEtFOSE	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:13	1
NEtFOSA	<4.2		4.2		ng/L		12/22/22 10:38	12/28/22 04:13	1
HFPODA	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:13	1
DONA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:13	1
6:2 Fluorotelomer sulfonic acid	<4.2		4.2		ng/L		12/22/22 10:38	12/28/22 04:13	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*118*		*10 - 200*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
M2-8:2 FTS	*122*		*33 - 200*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
M2-6:2 FTS	*124*		*17 - 200*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
13C5 PFHxA	*120*		*24 - 179*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
13C4 PFHpA	*122*		*31 - 182*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
13C8 PFOA	*115*		*48 - 162*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
13C9 PFNA	*125*		*51 - 167*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
13C6 PFDA	*123*		*49 - 163*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
13C7 PFUnA	*126*		*34 - 174*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
13C2-PFDoDA	*116*		*17 - 176*	*12/22/22 10:38*	*12/28/22 04:13*	*1*
13C2 PFTeDA	*118*		*10 - 179*	*12/22/22 10:38*	*12/28/22 04:13*	*1*

Client Sample ID: FFGAC-1222-EFF

Lab Sample ID: 410-108757-1

Date Collected: 12/08/22 07:30

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	110		16 - 200	12/22/22 10:38	12/28/22 04:13	1
13C3 PFHxS	122		28 - 188	12/22/22 10:38	12/28/22 04:13	1
13C8 PFOS	122		51 - 159	12/22/22 10:38	12/28/22 04:13	1
d3-NMeFOSAA	143		31 - 174	12/22/22 10:38	12/28/22 04:13	1
d5-NEtFOSAA	147		29 - 195	12/22/22 10:38	12/28/22 04:13	1
13C8 FOSA	132		10 - 168	12/22/22 10:38	12/28/22 04:13	1
13C4 PFBA	52		42 - 165	12/22/22 10:38	12/28/22 04:13	1
13C5 PFPeA	118		38 - 187	12/22/22 10:38	12/28/22 04:13	1
d7-N-MeFOSE-M	70		10 - 178	12/22/22 10:38	12/28/22 04:13	1
d3-NMePFOSA	81		10 - 155	12/22/22 10:38	12/28/22 04:13	1
d9-N-EtFOSE-M	70		10 - 177	12/22/22 10:38	12/28/22 04:13	1
d5-NEtPFOSA	80		10 - 159	12/22/22 10:38	12/28/22 04:13	1
13C3 HFPO-DA	122		17 - 185	12/22/22 10:38	12/28/22 04:13	1

Client Sample ID: FFGAC-1222-MID

Lab Sample ID: 410-108757-2

Date Collected: 12/08/22 07:35

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorononanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
NEtFOSAA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:24	1
NMeFOSAA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
10:2 FTS	**4.8**		4.3		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorobutanoic acid	<4.3		4.3		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
NMeFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:24	1
NMeFOSA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:24	1
NEtFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:24	1
NEtFOSA	<4.3		4.3		ng/L		12/22/22 10:38	12/28/22 04:24	1
HFPODA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:24	1
DONA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1

Client Sample ID: FFGAC-1222-MID

Lab Sample ID: 410-108757-2

Date Collected: 12/08/22 07:35

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:24	1
6:2 Fluorotelomer sulfonic acid	<4.3		4.3		ng/L		12/22/22 10:38	12/28/22 04:24	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*127*		*10 - 200*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
M2-8:2 FTS	*139*		*33 - 200*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
M2-6:2 FTS	*129*		*17 - 200*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C5 PFHxA	*131*		*24 - 179*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C4 PFHpA	*133*		*31 - 182*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C8 PFOA	*132*		*48 - 162*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C9 PFNA	*152*		*51 - 167*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C6 PFDA	*134*		*49 - 163*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C7 PFUnA	*135*		*34 - 174*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C2-PFDoDA	*125*		*17 - 176*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C2 PFTeDA	*94*		*10 - 179*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C3 PFBS	*123*		*16 - 200*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C3 PFHxS	*134*		*28 - 188*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C8 PFOS	*141*		*51 - 159*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
d3-NMeFOSAA	*155*		*31 - 174*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
d5-NEtFOSAA	*170*		*29 - 195*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C8 FOSA	*145*		*10 - 168*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C4 PFBA	*133*		*42 - 165*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C5 PFPeA	*133*		*38 - 187*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
d7-N-MeFOSE-M	*65*		*10 - 178*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
d3-NMePFOSA	*80*		*10 - 155*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
d9-N-EtFOSE-M	*60*		*10 - 177*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
d5-NEtPFOSA	*72*		*10 - 159*	*12/22/22 10:38*	*12/28/22 04:24*	*1*
13C3 HFPO-DA	*136*		*17 - 185*	*12/22/22 10:38*	*12/28/22 04:24*	*1*

Client Sample ID: FFGAC-1222-INF

Lab Sample ID: 410-108757-3

Date Collected: 12/08/22 07:40

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**8.5**		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluoroheptanoic acid	**5.2**		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorooctanoic acid	**15**		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorononanoic acid	**6.1**		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorodecanoic acid	**9.3**		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorotetradecanoic acid	**1.7**		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
NEtFOSAA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:35	1

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

Job ID: 410-108757-1

Client Sample ID: FFGAC-1222-INF

Date Collected: 12/08/22 07:40
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108757-3

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
10:2 FTS	**15**		4.3		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorobutanoic acid	**9.1**		4.3		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluoropentanoic acid	**2.6**		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
NMeFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:35	1
NMeFOSA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:35	1
NEtFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:35	1
NEtFOSA	<4.3		4.3		ng/L		12/22/22 10:38	12/28/22 04:35	1
HFPODA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:35	1
DONA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluorododecanoic acid	**3.8**		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
Perfluoroundecanoic acid	**4.7**		1.7		ng/L		12/22/22 10:38	12/28/22 04:35	1
6:2 Fluorotelomer sulfonic acid	**29**		4.3		ng/L		12/22/22 10:38	12/28/22 04:35	1
8:2 Fluorotelomer sulfonic acid	**22**		2.6		ng/L		12/22/22 10:38	12/28/22 04:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*225*	*5+ cn	*10 - 200*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
M2-8:2 FTS	*182*		*33 - 200*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
M2-6:2 FTS	*188*		*17 - 200*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C5 PFHxA	*120*		*24 - 179*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C4 PFHpA	*128*		*31 - 182*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C8 PFOA	*125*		*48 - 162*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C9 PFNA	*166*		*51 - 167*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C6 PFDA	*134*		*49 - 163*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C7 PFUnA	*141*		*34 - 174*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C2-PFDoDA	*136*		*17 - 176*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C2 PFTeDA	*118*		*10 - 179*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C3 PFBS	*148*		*16 - 200*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C3 PFHxS	*128*		*28 - 188*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C8 PFOS	*148*		*51 - 159*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
d3-NMeFOSAA	*159*		*31 - 174*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
d5-NEtFOSAA	*173*		*29 - 195*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C8 FOSA	*140*		*10 - 168*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C4 PFBA	*140*		*42 - 165*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C5 PFPeA	*156*		*38 - 187*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
d7-N-MeFOSE-M	*74*		*10 - 178*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
d3-NMePFOSA	*85*		*10 - 155*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
d9-N-EtFOSE-M	*75*		*10 - 177*	*12/22/22 10:38*	*12/28/22 04:35*	*1*

Client Sample ID: FFGAC-1222-INF

Lab Sample ID: 410-108757-3

Date Collected: 12/08/22 07:40
Matrix: Water
Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	*78*		*10 - 159*	*12/22/22 10:38*	*12/28/22 04:35*	*1*
13C3 HFPO-DA	*130*		*17 - 185*	*12/22/22 10:38*	*12/28/22 04:35*	*1*

Client Sample ID: FFGAC-1222-INF DUP

Lab Sample ID: 410-108757-4

Date Collected: 12/08/22 07:40
Matrix: Water
Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**8.4**		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluoroheptanoic acid	**5.2**		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorooctanoic acid	**14**		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorononanoic acid	**5.9**		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorodecanoic acid	**9.4**		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorotetradecanoic acid	**1.7**		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
NEtFOSAA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:46	1
NMeFOSAA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
10:2 FTS	**17**		4.3		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorobutanoic acid	**9.3**		4.3		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluoropentanoic acid	**2.7**		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
NMeFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:46	1
NMeFOSA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:46	1
NEtFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:46	1
NEtFOSA	<4.3		4.3		ng/L		12/22/22 10:38	12/28/22 04:46	1
HFPODA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 04:46	1
DONA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluorododecanoic acid	**4.0**		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
Perfluoroundecanoic acid	**4.6**		1.7		ng/L		12/22/22 10:38	12/28/22 04:46	1
6:2 Fluorotelomer sulfonic acid	**31**		4.3		ng/L		12/22/22 10:38	12/28/22 04:46	1
8:2 Fluorotelomer sulfonic acid	**25**		2.6		ng/L		12/22/22 10:38	12/28/22 04:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	*266*	**5+ cn*	*10 - 200*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
M2-8:2 FTS	*186*		*33 - 200*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
M2-6:2 FTS	*203*	**5+ cn*	*17 - 200*	*12/22/22 10:38*	*12/28/22 04:46*	*1*

Client Sample ID: FFGAC-1222-INF DUP

Lab Sample ID: 410-108757-4

Date Collected: 12/08/22 07:40

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFHxA	*140*		*24 - 179*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C4 PFHpA	*139*		*31 - 182*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C8 PFOA	*139*		*48 - 162*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C9 PFNA	*179*	**5+ cn*	*51 - 167*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C6 PFDA	*145*		*49 - 163*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C7 PFUnA	*151*		*34 - 174*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C2-PFDoDA	*145*		*17 - 176*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C2 PFTeDA	*97*		*10 - 179*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C3 PFBS	*155*		*16 - 200*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C3 PFHxS	*140*		*28 - 188*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C8 PFOS	*159*		*51 - 159*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
d3-NMeFOSAA	*164*		*31 - 174*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
d5-NEtFOSAA	*192*		*29 - 195*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C8 FOSA	*155*		*10 - 168*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C4 PFBA	*147*		*42 - 165*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C5 PFPeA	*165*		*38 - 187*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
d7-N-MeFOSE-M	*75*		*10 - 178*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
d3-NMePFOSA	*97*		*10 - 155*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
d9-N-EtFOSE-M	*73*		*10 - 177*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
d5-NEtPFOSA	*90*		*10 - 159*	*12/22/22 10:38*	*12/28/22 04:46*	*1*
13C3 HFPO-DA	*146*		*17 - 185*	*12/22/22 10:38*	*12/28/22 04:46*	*1*

Client Sample ID: FB-120822

Lab Sample ID: 410-108757-5

Date Collected: 12/08/22 07:25

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorononanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
NEtFOSAA	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:57	1
NMeFOSAA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
10:2 FTS	<4.2		4.2		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:57	1

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

Job ID: 410-108757-1

Client Sample ID: FB-120822
Date Collected: 12/08/22 07:25
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108757-5
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	<4.2		4.2		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
NMeFOSE	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:57	1
NMeFOSA	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:57	1
NEtFOSE	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:57	1
NEtFOSA	<4.2		4.2		ng/L		12/22/22 10:38	12/28/22 04:57	1
HFPODA	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:57	1
DONA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 04:57	1
6:2 Fluorotelomer sulfonic acid	<4.2		4.2		ng/L		12/22/22 10:38	12/28/22 04:57	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		12/22/22 10:38	12/28/22 04:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*133*		*10 - 200*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
M2-8:2 FTS	*150*		*33 - 200*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
M2-6:2 FTS	*148*		*17 - 200*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C5 PFHxA	*142*		*24 - 179*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C4 PFHpA	*139*		*31 - 182*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C8 PFOA	*136*		*48 - 162*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C9 PFNA	*152*		*51 - 167*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C6 PFDA	*138*		*49 - 163*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C7 PFUnA	*144*		*34 - 174*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C2-PFDoDA	*134*		*17 - 176*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C2 PFTeDA	*129*		*10 - 179*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C3 PFBS	*134*		*16 - 200*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C3 PFHxS	*140*		*28 - 188*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C8 PFOS	*148*		*51 - 159*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
d3-NMeFOSAA	*162*		*31 - 174*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
d5-NEtFOSAA	*170*		*29 - 195*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C8 FOSA	*144*		*10 - 168*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C4 PFBA	*142*		*42 - 165*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C5 PFPeA	*139*		*38 - 187*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
d7-N-MeFOSE-M	*110*		*10 - 178*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
d3-NMePFOSA	*73*		*10 - 155*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
d9-N-EtFOSE-M	*112*		*10 - 177*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
d5-NEtPFOSA	*73*		*10 - 159*	*12/22/22 10:38*	*12/28/22 04:57*	*1*
13C3 HFPO-DA	*152*		*17 - 185*	*12/22/22 10:38*	*12/28/22 04:57*	*1*

Isotope Dilution Summary

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

Job ID: 410-108757-1

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 (10-200)	M282FTS (33-200)	M262FTS (17-200)	13C5PHA (24-179)	C4PFHA (31-182)	C8PFOA (48-162)	C9PFNA (51-167)	C6PFDA (49-163)
410-108757-1	FFGAC-1222-EFF	118	122	124	120	122	115	125	123
410-108757-2	FFGAC-1222-MID	127	139	129	131	133	132	152	134
410-108757-3	FFGAC-1222-INF	225 *5+ cn	182	188	120	128	125	166	134
410-108757-4	FFGAC-1222-INF DUP	266 *5+ cn	186	203 *5+ cn	140	139	139	179 *5+ cn	145
410-108757-5	FB-120822	133	150	148	142	139	136	152	138
LCS 410-329831/2-A	Lab Control Sample	110	133	119	117	116	117	136	118
LCSD 410-329831/3-A	Lab Control Sample Dup	98	107	111	103	102	101	117	104
MB 410-329831/1-A	Method Blank	123	144	143	134	134	132	143	129

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-108757-1	FFGAC-1222-EFF	126	116	118	110	122	122	143	147
410-108757-2	FFGAC-1222-MID	135	125	94	123	134	141	155	170
410-108757-3	FFGAC-1222-INF	141	136	118	148	128	148	159	173
410-108757-4	FFGAC-1222-INF DUP	151	145	97	155	140	159	164	192
410-108757-5	FB-120822	144	134	129	134	140	148	162	170
LCS 410-329831/2-A	Lab Control Sample	126	122	116	121	122	129	141	152
LCSD 410-329831/3-A	Lab Control Sample Dup	108	102	101	102	104	112	121	126
MB 410-329831/1-A	Method Blank	135	126	122	133	137	138	144	153

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
410-108757-1	FFGAC-1222-EFF	132	52	118	70	81	70	80	122
410-108757-2	FFGAC-1222-MID	145	133	133	65	80	60	72	136
410-108757-3	FFGAC-1222-INF	140	140	156	74	85	75	78	130
410-108757-4	FFGAC-1222-INF DUP	155	147	165	75	97	73	90	146
410-108757-5	FB-120822	144	142	139	110	73	112	73	152
LCS 410-329831/2-A	Lab Control Sample	125	126	125	97	57	98	59	123
LCSD 410-329831/3-A	Lab Control Sample Dup	104	106	104	80	49	82	51	106
MB 410-329831/1-A	Method Blank	136	133	134	113	84	120	90	143

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

Isotope Dilution Summary

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

Job ID: 410-108757-1

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

Lab Sample ID: MB 410-329831/1-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorononanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NEtFOSAA	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NMeFOSAA	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
10:2 FTS	<5.0		5.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NMeFOSE	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NMeFOSA	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NEtFOSE	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NEtFOSA	<5.0		5.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
HFPODA	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
DONA	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
9Cl-PF3ONS	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*123*		*10 - 200*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
M2-8:2 FTS	*144*		*33 - 200*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
M2-6:2 FTS	*143*		*17 - 200*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C5 PFHxA	*134*		*24 - 179*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C4 PFHpA	*134*		*31 - 182*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C8 PFOA	*132*		*48 - 162*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C9 PFNA	*143*		*51 - 167*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C6 PFDA	*129*		*49 - 163*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C7 PFUnA	*135*		*34 - 174*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C2-PFDoDA	*126*		*17 - 176*	*12/22/22 10:38*	*12/28/22 03:40*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-329831/1-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329831

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	122		10 - 179	12/22/22 10:38	12/28/22 03:40	1
13C3 PFBS	133		16 - 200	12/22/22 10:38	12/28/22 03:40	1
13C3 PFHxS	137		28 - 188	12/22/22 10:38	12/28/22 03:40	1
13C8 PFOS	138		51 - 159	12/22/22 10:38	12/28/22 03:40	1
d3-NMeFOSAA	144		31 - 174	12/22/22 10:38	12/28/22 03:40	1
d5-NEtFOSAA	153		29 - 195	12/22/22 10:38	12/28/22 03:40	1
13C8 FOSA	136		10 - 168	12/22/22 10:38	12/28/22 03:40	1
13C4 PFBA	133		42 - 165	12/22/22 10:38	12/28/22 03:40	1
13C5 PFPeA	134		38 - 187	12/22/22 10:38	12/28/22 03:40	1
d7-N-MeFOSE-M	113		10 - 178	12/22/22 10:38	12/28/22 03:40	1
d3-NMePFOSA	84		10 - 155	12/22/22 10:38	12/28/22 03:40	1
d9-N-EtFOSE-M	120		10 - 177	12/22/22 10:38	12/28/22 03:40	1
d5-NEtPFOSA	90		10 - 159	12/22/22 10:38	12/28/22 03:40	1
13C3 HFPO-DA	143		17 - 185	12/22/22 10:38	12/28/22 03:40	1

Lab Sample ID: LCS 410-329831/2-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	22.1		ng/L		86	58 - 139
Perfluoroheptanoic acid	25.6	22.8		ng/L		89	59 - 145
Perfluorooctanoic acid	25.6	23.0		ng/L		90	51 - 145
Perfluorononanoic acid	25.6	21.7		ng/L		85	61 - 139
Perfluorodecanoic acid	25.6	24.0		ng/L		94	56 - 138
Perfluorotridecanoic acid	25.6	23.7		ng/L		92	58 - 146
Perfluorotetradecanoic acid	25.6	22.4		ng/L		88	62 - 139
Perfluorobutanesulfonic acid	22.7	20.7		ng/L		91	53 - 138
Perfluorohexanesulfonic acid	23.3	19.3		ng/L		83	58 - 134
Perfluorooctanesulfonic acid	23.7	20.0		ng/L		84	45 - 150
NEtFOSAA	25.6	21.9		ng/L		86	55 - 134
NMeFOSAA	25.6	22.6		ng/L		88	59 - 140
10:2 FTS	24.7	20.2		ng/L		82	50 - 146
Perfluoropentanesulfonic acid	24.0	22.6		ng/L		94	55 - 140
Perfluoroheptanesulfonic acid	24.4	19.5		ng/L		80	56 - 140
Perfluorononanesulfonic acid	24.6	21.4		ng/L		87	59 - 136
Perfluorodecanesulfonic acid	24.7	21.3		ng/L		86	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.0		ng/L		85	48 - 138
Perfluorooctanesulfonamide	25.6	22.4		ng/L		87	43 - 167
Perfluorohexadecanoic acid	25.6	19.7		ng/L		77	41 - 158
Perfluorooctadecanoic acid	25.6	19.0		ng/L		74	29 - 172
Perfluorobutanoic acid	25.6	20.4		ng/L		80	59 - 136
Perfluoropentanoic acid	25.6	21.8		ng/L		85	57 - 141
NMeFOSE	25.6	21.5		ng/L		84	55 - 144
NMeFOSA	25.6	23.5		ng/L		92	64 - 143
NEtFOSE	25.6	21.1		ng/L		82	60 - 136
NEtFOSA	25.6	22.9		ng/L		90	61 - 134
HFPODA	25.6	19.5		ng/L		76	50 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-329831/2-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329831

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DONA			24.2	20.6		ng/L		85	55 - 143		
9Cl-PF3ONS			23.8	20.9		ng/L		88	59 - 135		
11Cl-PF3OUdS			23.8	20.6		ng/L		86	53 - 139		
Perfluorododecanoic acid			25.6	22.9		ng/L		89	59 - 143		
4:2 Fluorotelomer sulfonic acid			23.9	21.4		ng/L		89	55 - 139		
Perfluoroundecanoic acid			25.6	22.7		ng/L		89	60 - 141		
6:2 Fluorotelomer sulfonic acid			24.3	20.9		ng/L		86	28 - 173		
8:2 Fluorotelomer sulfonic acid			24.5	19.9		ng/L		81	55 - 138		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*110*		*10 - 200*
M2-8:2 FTS	*133*		*33 - 200*
M2-6:2 FTS	*119*		*17 - 200*
13C5 PFHxA	*117*		*24 - 179*
13C4 PFHpA	*116*		*31 - 182*
13C8 PFOA	*117*		*48 - 162*
13C9 PFNA	*136*		*51 - 167*
13C6 PFDA	*118*		*49 - 163*
13C7 PFUnA	*126*		*34 - 174*
13C2-PFDoDA	*122*		*17 - 176*
13C2 PFTeDA	*116*		*10 - 179*
13C3 PFBS	*121*		*16 - 200*
13C3 PFHxS	*122*		*28 - 188*
13C8 PFOS	*129*		*51 - 159*
d3-NMeFOSAA	*141*		*31 - 174*
d5-NEtFOSAA	*152*		*29 - 195*
13C8 FOSA	*125*		*10 - 168*
13C4 PFBA	*126*		*42 - 165*
13C5 PFPeA	*125*		*38 - 187*
d7-N-MeFOSE-M	*97*		*10 - 178*
d3-NMePFOSA	*57*		*10 - 155*
d9-N-EtFOSE-M	*98*		*10 - 177*
d5-NEtPFOSA	*59*		*10 - 159*
13C3 HFPO-DA	*123*		*17 - 185*

Lab Sample ID: LCSD 410-329831/3-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329831

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	22.5		ng/L		88	58 - 139	2	30
Perfluoroheptanoic acid			25.6	23.1		ng/L		90	59 - 145	1	30
Perfluorooctanoic acid			25.6	22.9		ng/L		89	51 - 145	0	30
Perfluorononanoic acid			25.6	22.8		ng/L		89	61 - 139	5	30
Perfluorodecanoic acid			25.6	23.6		ng/L		92	56 - 138	2	30
Perfluorotridecanoic acid			25.6	23.7		ng/L		93	58 - 146	0	30
Perfluorotetradecanoic acid			25.6	22.7		ng/L		89	62 - 139	1	30
Perfluorobutanesulfonic acid			22.7	21.0		ng/L		93	53 - 138	1	30
Perfluorohexanesulfonic acid			23.3	19.8		ng/L		85	58 - 134	3	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-329831/3-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329831

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid			23.7	20.1		ng/L		85	45 - 150	1	30
NEtFOSAA			25.6	22.2		ng/L		87	55 - 134	1	30
NMeFOSAA			25.6	22.0		ng/L		86	59 - 140	3	30
10:2 FTS			24.7	21.2		ng/L		86	50 - 146	5	30
Perfluoropentanesulfonic acid			24.0	22.9		ng/L		95	55 - 140	1	30
Perfluoroheptanesulfonic acid			24.4	18.7		ng/L		77	56 - 140	4	30
Perfluorononanesulfonic acid			24.6	21.1		ng/L		86	59 - 136	1	30
Perfluorodecanesulfonic acid			24.7	21.3		ng/L		86	55 - 137	0	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	21.3		ng/L		86	48 - 138	2	30
Perfluorooctanesulfonamide			25.6	21.8		ng/L		85	43 - 167	3	30
Perfluorohexadecanoic acid			25.6	19.6		ng/L		77	41 - 158	1	30
Perfluorooctadecanoic acid			25.6	18.8		ng/L		73	29 - 172	1	30
Perfluorobutanoic acid			25.6	20.1		ng/L		79	59 - 136	2	30
Perfluoropentanoic acid			25.6	22.3		ng/L		87	57 - 141	2	30
NMeFOSE			25.6	22.3		ng/L		87	55 - 144	4	30
NMeFOSA			25.6	24.4		ng/L		95	64 - 143	4	30
NEtFOSE			25.6	21.6		ng/L		84	60 - 136	2	30
NEtFOSA			25.6	22.4		ng/L		88	61 - 134	2	30
HFPODA			25.6	19.0		ng/L		74	50 - 135	3	30
DONA			24.2	20.8		ng/L		86	55 - 143	1	30
9Cl-PF3ONS			23.8	21.3		ng/L		89	59 - 135	2	30
11Cl-PF3OUdS			23.8	21.0		ng/L		88	53 - 139	2	30
Perfluorododecanoic acid			25.6	22.6		ng/L		88	59 - 143	1	30
4:2 Fluorotelomer sulfonic acid			23.9	21.7		ng/L		91	55 - 139	2	30
Perfluoroundecanoic acid			25.6	22.5		ng/L		88	60 - 141	1	30
6:2 Fluorotelomer sulfonic acid			24.3	19.8		ng/L		82	28 - 173	5	30
8:2 Fluorotelomer sulfonic acid			24.5	20.9		ng/L		85	55 - 138	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*98*		*10 - 200*
M2-8:2 FTS	*107*		*33 - 200*
M2-6:2 FTS	*111*		*17 - 200*
13C5 PFHxA	*103*		*24 - 179*
13C4 PFHpA	*102*		*31 - 182*
13C8 PFOA	*101*		*48 - 162*
13C9 PFNA	*117*		*51 - 167*
13C6 PFDA	*104*		*49 - 163*
13C7 PFUnA	*108*		*34 - 174*
13C2-PFDoDA	*102*		*17 - 176*
13C2 PFTeDA	*101*		*10 - 179*
13C3 PFBS	*102*		*16 - 200*
13C3 PFHxS	*104*		*28 - 188*
13C8 PFOS	*112*		*51 - 159*
d3-NMeFOSAA	*121*		*31 - 174*
d5-NEtFOSAA	*126*		*29 - 195*
13C8 FOSA	*104*		*10 - 168*
13C4 PFBA	*106*		*42 - 165*
13C5 PFPeA	*104*		*38 - 187*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-329831/3-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329831

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d7-N-MeFOSE-M	80		10 - 178
d3-NMePFOSA	49		10 - 155
d9-N-EtFOSE-M	82		10 - 177
d5-NEtPFOSA	51		10 - 159
13C3 HFPO-DA	106		17 - 185

QC Association Summary

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

Job ID: 410-108757-1

LCMS

Prep Batch: 329831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108757-1	FFGAC-1222-EFF	Total/NA	Water	EPA 537 (mod)	
410-108757-2	FFGAC-1222-MID	Total/NA	Water	EPA 537 (mod)	
410-108757-3	FFGAC-1222-INF	Total/NA	Water	EPA 537 (mod)	
410-108757-4	FFGAC-1222-INF DUP	Total/NA	Water	EPA 537 (mod)	
410-108757-5	FB-120822	Total/NA	Water	EPA 537 (mod)	
MB 410-329831/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-329831/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-329831/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 330415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108757-1	FFGAC-1222-EFF	Total/NA	Water	EPA 537 (Mod)	329831
410-108757-2	FFGAC-1222-MID	Total/NA	Water	EPA 537 (Mod)	329831
410-108757-3	FFGAC-1222-INF	Total/NA	Water	EPA 537 (Mod)	329831
410-108757-4	FFGAC-1222-INF DUP	Total/NA	Water	EPA 537 (Mod)	329831
410-108757-5	FB-120822	Total/NA	Water	EPA 537 (Mod)	329831
MB 410-329831/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	329831
LCS 410-329831/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	329831
LCSD 410-329831/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	329831

Prep Batch: 333020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108757-4 - RE	FFGAC-1222-INF DUP	Total/NA	Water	EPA 537 (mod)	
MB 410-333020/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-333020/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-333020/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 333638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108757-4 - RE	FFGAC-1222-INF DUP	Total/NA	Water	EPA 537 (Mod)	333020
MB 410-333020/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	333020
LCS 410-333020/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	333020
LCSD 410-333020/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	333020

Lab Chronicle

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

Job ID: 410-108757-1

Client Sample ID: FFGAC-1222-EFF
Lab Sample ID: 410-108757-1
Date Collected: 12/08/22 07:30
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 04:13

Client Sample ID: FFGAC-1222-MID
Lab Sample ID: 410-108757-2
Date Collected: 12/08/22 07:35
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 04:24

Client Sample ID: FFGAC-1222-INF
Lab Sample ID: 410-108757-3
Date Collected: 12/08/22 07:40
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 04:35

Client Sample ID: FFGAC-1222-INF DUP
Lab Sample ID: 410-108757-4
Date Collected: 12/08/22 07:40
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 04:46
Total/NA	Prep	EPA 537 (mod)	RE		333020	QLP7	ELLE	01/05/23 16:16
Total/NA	Analysis	EPA 537 (Mod)	RE	1	333638	I5JH	ELLE	01/09/23 22:45

Client Sample ID: FB-120822
Lab Sample ID: 410-108757-5
Date Collected: 12/08/22 07:25
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 04:57

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-108757-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	01-14-23

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	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
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

Method Summary

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

Job ID: 410-108757-1

Method	Method Description	Protocol	Laboratory
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

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

Job ID: 410-108757-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-108757-1	FFGAC-1222-EFF	Water	12/08/22 07:30	12/10/22 10:00
410-108757-2	FFGAC-1222-MID	Water	12/08/22 07:35	12/10/22 10:00
410-108757-3	FFGAC-1222-INF	Water	12/08/22 07:40	12/10/22 10:00
410-108757-4	FFGAC-1222-INF DUP	Water	12/08/22 07:40	12/10/22 10:00
410-108757-5	FB-120822	Water	12/08/22 07:25	12/10/22 10:00

nvironme

Chain of Custody Record

eurofins Environment Testing

410-108757 Chain of Custody

Client Contact: Mr. Matthew Kenney	Sampler: M. KENNEY / K. SANTARPIO	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):
	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA
Company: Weston Solutions, Inc.	PWSID:		
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: NANTUCKET	SSOW#:		

COC No: 410-70765-12335.1

Page: Page 1 of 1

Job #:

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, Y - Trizma, 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)	PFAS 36	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
FFGAC-1222-EFF	12/8/22	0730	G	W			X	2	
FFGAC-1222-MID		0735					X		
FFGAC-1222-INF		0740					X		
FFGAC-1222-INF DUP		0740					X		
FB-120822		0725					X		K. SANTARPIO

MK

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]	12/9/22 1530	WESTON			
			[signature]	12/10/22 WO	ECLET

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.6/4.5

Ver: 01/16/2019

1/11/2023

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-108757-1

Login Number: 108757 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: McBeth, Jessica

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-108757-1
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: Kathleen Lloyd **Position:** QA Specialist

Printed Name: Kathleen Lloyd, designee for Elizabeth Zanar, Project Manager **Date:** 01/10/2023

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-108758-1

WESTON SAMPLE IDs: EB-120622, EB-120622-2, EB-120622-3, ACK-14-12062022, ACK-14-12062022 DUP, ACK-01-12072022, TACK-10-12072022, TACK-01-12082022, TACK-02-12082022, TACK-05-12082022, TACK-06-12082022, EB-12082022, TACK-08-12092022, TACK-09-12092022, TACK-04-12092022, FB-120922, TACK-03-12092022

Data Reviewed	**Fraction**				**Comments**
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				
Preservation/Log Sheet	√				
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	√				
ICAL/ICV/CCV	√				Laboratory noted that 13-C3 HFPO-DA and d5-NEtFOSAA were outside the recovery limits in CCVs, but recovered within limits in associated samples. No qualifiers applied. Laboratory noted that 10:2 FTS recovered above the QC limits in the closing CCV, but was not detected in associated samples. No qualifiers applied.
Lab Duplicates	NA				
Field Duplicates	√				ACK-14-12062022 and ACK-14-12062022 DUP
Isotope Dilution Recoveries	TACK-06-12082022				M-2 4:2 FTS high: qualify 4:2 FTS as estimated non-detect, UJ.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: UJ

Data Reviewer Initials: RBE
Date: 1/24/2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

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JOB DESCRIPTION

Nantucket

JOB NUMBER

410-108758-1

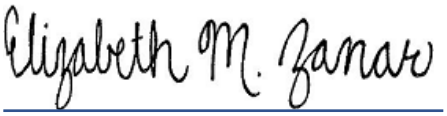
Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

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

Job ID: 410-108758-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail

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 Environment Testing, LLC	Project #:	410-108758-1
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:** 01/04/2023

Case Narrative

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

Job ID: 410-108758-1

Job ID: 410-108758-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-108758-1

Receipt
The samples were received on 12/10/2022 10:00 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
Method PFC_IDA: The recovery for labeled isotope: 13C3 HFPO-DA is above the QC acceptance limit in the closing continuing calibration verification standard, biased high. Since the recovery for labeled isotope: 13C3 HFPO-DA is within the QC limit in the following samples: TACK-04-12092022 (410-108758-15), FB-120922 (410-108758-16) and TACK-03-12092022 (410-108758-17), the data is reported.

Method PFC_IDA: The recovery for 10:2 FTS is above the QC acceptance limit in the closing continuing calibration verification standard. Since the result is high and 10:2 FTS is not detected in TACK-04-12092022 (410-108758-15), FB-120922 (410-108758-16) and TACK-03-12092022 (410-108758-17), the data are reported.

Method PFC_IDA: The recovery for the labeled isotope: M2-4:2 FTS in the following sample: TACK-06-12082022 (410-108758-11) 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 labeled isotope: d5-NEtFOSAA is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the recovery for the labeled isotope is within QC limits in the following samples: TACK-08-12092022 (410-108758-13) and TACK-09-12092022 (410-108758-14), the data is reported.

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: 410-108758-1

Client Sample ID: EB-120622 — Lab Sample ID: 410-108758-1

No Detections.

Client Sample ID: EB-120622-2 — Lab Sample ID: 410-108758-2

No Detections.

Client Sample ID: EB-120622-3 — Lab Sample ID: 410-108758-3

No Detections.

Client Sample ID: ACK-14-12062022 — Lab Sample ID: 410-108758-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	7.7		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	9.4		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	21		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	2.6		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	4.5		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	32		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	22		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanesulfonic acid	2.2		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	6.6		1.7		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: ACK-14-12062022 DUP — Lab Sample ID: 410-108758-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	8.1		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	9.4		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	21		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	2.5		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	4.6		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	29		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	21		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanesulfonic acid	2.0		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	4.3		4.2		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	6.8		1.7		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: ACK-01-12072022 — Lab Sample ID: 410-108758-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.8		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	20		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanesulfonic acid	2.1		1.8		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: TACK-10-12072022 — Lab Sample ID: 410-108758-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	6.4		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	3.4		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	3.3		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	1.8		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	2.6		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	2.3		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	7.0		4.5		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	6.9		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	42		4.5		ng/L	1		EPA 537 (Mod)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-108758-1

Client Sample ID: TACK-01-12082022 — Lab Sample ID: 410-108758-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	4.0		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	8.3		4.4		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: TACK-02-12082022 — Lab Sample ID: 410-108758-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	26		4.4		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: TACK-05-12082022 — Lab Sample ID: 410-108758-10

No Detections.

Client Sample ID: TACK-06-12082022 — Lab Sample ID: 410-108758-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	4.6		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	4.2		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	7.9		4.4		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: EB-12082022 — Lab Sample ID: 410-108758-12

No Detections.

Client Sample ID: TACK-08-12092022 — Lab Sample ID: 410-108758-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	200		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	76		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	16		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	3.0		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	33		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	120		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanesulfonic acid	2.0		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	76		4.2		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	260		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	13		4.2		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: TACK-09-12092022 — Lab Sample ID: 410-108758-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	4.0		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	3.1		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	6.0		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	7.7		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	2.3		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	18		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	4.2		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	6.5		4.4		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: TACK-04-12092022 — Lab Sample ID: 410-108758-15

No Detections.

Client Sample ID: FB-120922 — Lab Sample ID: 410-108758-16

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-108758-1

Client Sample ID: TACK-03-12092022

Lab Sample ID: 410-108758-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	91		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	57		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	26		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	290		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanesulfonic acid	38		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanesulfonic acid	23		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	340		4.4		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	42		4.4		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanoic acid - DL	660		18		ng/L	10		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid - DL	2400		18		ng/L	10		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid - DL	2000		18		ng/L	10		EPA 537 (Mod)	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 410-108758-1

Client Sample ID: EB-120622

Date Collected: 12/06/22 13:55
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-1

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
NEtFOSAA	<2.7		2.7		ng/L		12/20/22 07:34	12/22/22 09:32	1
NMeFOSAA	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
10:2 FTS	<4.5		4.5		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorobutanoic acid	<4.5		4.5		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
NMeFOSE	<2.7		2.7		ng/L		12/20/22 07:34	12/22/22 09:32	1
NMeFOSA	<2.7		2.7		ng/L		12/20/22 07:34	12/22/22 09:32	1
NEtFOSE	<2.7		2.7		ng/L		12/20/22 07:34	12/22/22 09:32	1
NEtFOSA	<4.5		4.5		ng/L		12/20/22 07:34	12/22/22 09:32	1
HFPODA	<2.7		2.7		ng/L		12/20/22 07:34	12/22/22 09:32	1
DONA	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/20/22 07:34	12/22/22 09:32	1
6:2 Fluorotelomer sulfonic acid	<4.5		4.5		ng/L		12/20/22 07:34	12/22/22 09:32	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/20/22 07:34	12/22/22 09:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 200*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
M2-8:2 FTS	*114*		*33 - 200*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
M2-6:2 FTS	*116*		*17 - 200*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
13C5 PFHxA	*103*		*24 - 179*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
13C4 PFHpA	*102*		*31 - 182*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
13C8 PFOA	*101*		*48 - 162*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
13C9 PFNA	*115*		*51 - 167*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
13C6 PFDA	*98*		*49 - 163*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
13C7 PFUnA	*109*		*34 - 174*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
13C2-PFDoDA	*99*		*17 - 176*	*12/20/22 07:34*	*12/22/22 09:32*	*1*
13C2 PFTeDA	*98*		*10 - 179*	*12/20/22 07:34*	*12/22/22 09:32*	*1*

Client Sample ID: EB-120622

Date Collected: 12/06/22 13:55
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-1

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	100		16 - 200	12/20/22 07:34	12/22/22 09:32	1
13C3 PFHxS	102		28 - 188	12/20/22 07:34	12/22/22 09:32	1
13C8 PFOS	107		51 - 159	12/20/22 07:34	12/22/22 09:32	1
d3-NMeFOSAA	115		31 - 174	12/20/22 07:34	12/22/22 09:32	1
d5-NEtFOSAA	127		29 - 195	12/20/22 07:34	12/22/22 09:32	1
13C8 FOSA	103		10 - 168	12/20/22 07:34	12/22/22 09:32	1
13C4 PFBA	101		42 - 165	12/20/22 07:34	12/22/22 09:32	1
13C5 PFPeA	101		38 - 187	12/20/22 07:34	12/22/22 09:32	1
d7-N-MeFOSE-M	82		10 - 178	12/20/22 07:34	12/22/22 09:32	1
d3-NMePFOSA	65		10 - 155	12/20/22 07:34	12/22/22 09:32	1
d9-N-EtFOSE-M	83		10 - 177	12/20/22 07:34	12/22/22 09:32	1
d5-NEtPFOSA	69		10 - 159	12/20/22 07:34	12/22/22 09:32	1
13C3 HFPO-DA	105		17 - 185	12/20/22 07:34	12/22/22 09:32	1

Client Sample ID: EB-120622-2

Date Collected: 12/06/22 14:00
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-2

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorononanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
NEtFOSAA	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:44	1
NMeFOSAA	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
10:2 FTS	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorobutanoic acid	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
NMeFOSE	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:44	1
NMeFOSA	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:44	1
NEtFOSE	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:44	1
NEtFOSA	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 09:44	1
HFPODA	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:44	1
DONA	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1

Client Sample ID: EB-120622-2

Date Collected: 12/06/22 14:00
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-2

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:44	1
6:2 Fluorotelomer sulfonic acid	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 09:44	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*10 - 200*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
M2-8:2 FTS	*111*		*33 - 200*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
M2-6:2 FTS	*112*		*17 - 200*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C5 PFHxA	*106*		*24 - 179*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C4 PFHpA	*104*		*31 - 182*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C8 PFOA	*104*		*48 - 162*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C9 PFNA	*119*		*51 - 167*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C6 PFDA	*98*		*49 - 163*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C7 PFUnA	*107*		*34 - 174*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C2-PFDoDA	*96*		*17 - 176*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C3 PFBS	*97*		*16 - 200*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C3 PFHxS	*102*		*28 - 188*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C8 PFOS	*108*		*51 - 159*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
d3-NMeFOSAA	*118*		*31 - 174*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
d5-NEtFOSAA	*126*		*29 - 195*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C8 FOSA	*103*		*10 - 168*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C4 PFBA	*104*		*42 - 165*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C5 PFPeA	*105*		*38 - 187*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
d7-N-MeFOSE-M	*73*		*10 - 178*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
d3-NMePFOSA	*51*		*10 - 155*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
d9-N-EtFOSE-M	*74*		*10 - 177*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
d5-NEtPFOSA	*51*		*10 - 159*	*12/20/22 07:34*	*12/22/22 09:44*	*1*
13C3 HFPO-DA	*104*		*17 - 185*	*12/20/22 07:34*	*12/22/22 09:44*	*1*

Client Sample ID: EB-120622-3

Date Collected: 12/06/22 14:15
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-3

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorononanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
NEtFOSAA	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:55	1

Client Sample ID: EB-120622-3

Date Collected: 12/06/22 14:15
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-3

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
10:2 FTS	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorobutanoic acid	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
NMeFOSE	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:55	1
NMeFOSA	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:55	1
NEtFOSE	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:55	1
NEtFOSA	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 09:55	1
HFPODA	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:55	1
DONA	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 09:55	1
6:2 Fluorotelomer sulfonic acid	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 09:55	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 09:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*104*		*10 - 200*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
M2-8:2 FTS	*104*		*33 - 200*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
M2-6:2 FTS	*126*		*17 - 200*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C5 PFHxA	*107*		*24 - 179*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C4 PFHpA	*105*		*31 - 182*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C8 PFOA	*105*		*48 - 162*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C9 PFNA	*118*		*51 - 167*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C6 PFDA	*104*		*49 - 163*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C7 PFUnA	*110*		*34 - 174*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C2-PFDoDA	*102*		*17 - 176*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C2 PFTeDA	*96*		*10 - 179*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C3 PFBS	*101*		*16 - 200*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C3 PFHxS	*104*		*28 - 188*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C8 PFOS	*107*		*51 - 159*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
d3-NMeFOSAA	*118*		*31 - 174*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
d5-NEtFOSAA	*131*		*29 - 195*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C8 FOSA	*104*		*10 - 168*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C4 PFBA	*108*		*42 - 165*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
13C5 PFPeA	*104*		*38 - 187*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
d7-N-MeFOSE-M	*77*		*10 - 178*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
d3-NMePFOSA	*59*		*10 - 155*	*12/20/22 07:34*	*12/22/22 09:55*	*1*
d9-N-EtFOSE-M	*80*		*10 - 177*	*12/20/22 07:34*	*12/22/22 09:55*	*1*

Client Sample ID: EB-120622-3

Lab Sample ID: 410-108758-3

Date Collected: 12/06/22 14:15

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	63		10 - 159	12/20/22 07:34	12/22/22 09:55	1
13C3 HFPO-DA	111		17 - 185	12/20/22 07:34	12/22/22 09:55	1

Client Sample ID: ACK-14-12062022

Lab Sample ID: 410-108758-4

Date Collected: 12/06/22 15:00

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**7.7**		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluoroheptanoic acid	**9.4**		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorooctanoic acid	**21**		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorononanoic acid	**2.6**		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorobutanesulfonic acid	**4.5**		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorohexanesulfonic acid	**32**		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorooctanesulfonic acid	**22**		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
NEtFOSAA	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 10:06	1
NMeFOSAA	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
10:2 FTS	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluoropentanesulfonic acid	**2.2**		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorobutanoic acid	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluoropentanoic acid	**6.6**		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
NMeFOSE	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 10:06	1
NMeFOSA	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 10:06	1
NEtFOSE	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 10:06	1
NEtFOSA	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 10:06	1
HFPODA	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 10:06	1
DONA	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:06	1
6:2 Fluorotelomer sulfonic acid	<4.3		4.3		ng/L		12/20/22 07:34	12/22/22 10:06	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		12/20/22 07:34	12/22/22 10:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	149		10 - 200	12/20/22 07:34	12/22/22 10:06	1
M2-8:2 FTS	120		33 - 200	12/20/22 07:34	12/22/22 10:06	1
M2-6:2 FTS	119		17 - 200	12/20/22 07:34	12/22/22 10:06	1

Client Sample ID: ACK-14-12062022

Lab Sample ID: 410-108758-4

Date Collected: 12/06/22 15:00

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	102		24 - 179	12/20/22 07:34	12/22/22 10:06	1
13C4 PFHpA	100		31 - 182	12/20/22 07:34	12/22/22 10:06	1
13C8 PFOA	101		48 - 162	12/20/22 07:34	12/22/22 10:06	1
13C9 PFNA	118		51 - 167	12/20/22 07:34	12/22/22 10:06	1
13C6 PFDA	100		49 - 163	12/20/22 07:34	12/22/22 10:06	1
13C7 PFUnA	112		34 - 174	12/20/22 07:34	12/22/22 10:06	1
13C2-PFDoDA	100		17 - 176	12/20/22 07:34	12/22/22 10:06	1
13C2 PFTeDA	97		10 - 179	12/20/22 07:34	12/22/22 10:06	1
13C3 PFBS	123		16 - 200	12/20/22 07:34	12/22/22 10:06	1
13C3 PFHxS	104		28 - 188	12/20/22 07:34	12/22/22 10:06	1
13C8 PFOS	110		51 - 159	12/20/22 07:34	12/22/22 10:06	1
d3-NMeFOSAA	118		31 - 174	12/20/22 07:34	12/22/22 10:06	1
d5-NEtFOSAA	129		29 - 195	12/20/22 07:34	12/22/22 10:06	1
13C8 FOSA	102		10 - 168	12/20/22 07:34	12/22/22 10:06	1
13C4 PFBA	110		42 - 165	12/20/22 07:34	12/22/22 10:06	1
13C5 PFPeA	123		38 - 187	12/20/22 07:34	12/22/22 10:06	1
d7-N-MeFOSE-M	90		10 - 178	12/20/22 07:34	12/22/22 10:06	1
d3-NMePFOSA	63		10 - 155	12/20/22 07:34	12/22/22 10:06	1
d9-N-EtFOSE-M	87		10 - 177	12/20/22 07:34	12/22/22 10:06	1
d5-NEtPFOSA	65		10 - 159	12/20/22 07:34	12/22/22 10:06	1
13C3 HFPO-DA	105		17 - 185	12/20/22 07:34	12/22/22 10:06	1

Client Sample ID: ACK-14-12062022 DUP

Lab Sample ID: 410-108758-5

Date Collected: 12/06/22 15:00

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**8.1**		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluoroheptanoic acid	**9.4**		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorooctanoic acid	**21**		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorononanoic acid	**2.5**		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorobutanesulfonic acid	**4.6**		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorohexanesulfonic acid	**29**		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorooctanesulfonic acid	**21**		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
NEtFOSAA	<2.5		2.5		ng/L		12/20/22 07:34	12/22/22 10:17	1
NMeFOSAA	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
10:2 FTS	<4.2		4.2		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluoropentanesulfonic acid	**2.0**		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		12/20/22 07:34	12/22/22 10:17	1

Client Sample ID: ACK-14-12062022 DUP

Lab Sample ID: 410-108758-5

Date Collected: 12/06/22 15:00

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**4.3**		4.2		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluoropentanoic acid	**6.8**		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
NMeFOSE	<2.5		2.5		ng/L		12/20/22 07:34	12/22/22 10:17	1
NMeFOSA	<2.5		2.5		ng/L		12/20/22 07:34	12/22/22 10:17	1
NEtFOSE	<2.5		2.5		ng/L		12/20/22 07:34	12/22/22 10:17	1
NEtFOSA	<4.2		4.2		ng/L		12/20/22 07:34	12/22/22 10:17	1
HFPODA	<2.5		2.5		ng/L		12/20/22 07:34	12/22/22 10:17	1
DONA	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/20/22 07:34	12/22/22 10:17	1
6:2 Fluorotelomer sulfonic acid	<4.2		4.2		ng/L		12/20/22 07:34	12/22/22 10:17	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		12/20/22 07:34	12/22/22 10:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*144*		*10 - 200*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
M2-8:2 FTS	*123*		*33 - 200*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
M2-6:2 FTS	*114*		*17 - 200*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C5 PFHxA	*93*		*24 - 179*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C4 PFHpA	*94*		*31 - 182*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C8 PFOA	*94*		*48 - 162*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C9 PFNA	*118*		*51 - 167*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C6 PFDA	*98*		*49 - 163*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C7 PFUnA	*102*		*34 - 174*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C2-PFDoDA	*99*		*17 - 176*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C2 PFTeDA	*94*		*10 - 179*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C3 PFBS	*117*		*16 - 200*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C3 PFHxS	*100*		*28 - 188*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C8 PFOS	*107*		*51 - 159*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
d3-NMeFOSAA	*110*		*31 - 174*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
d5-NEtFOSAA	*125*		*29 - 195*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C8 FOSA	*94*		*10 - 168*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C4 PFBA	*99*		*42 - 165*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C5 PFPeA	*115*		*38 - 187*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
d7-N-MeFOSE-M	*79*		*10 - 178*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
d3-NMePFOSA	*58*		*10 - 155*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
d9-N-EtFOSE-M	*77*		*10 - 177*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
d5-NEtPFOSA	*63*		*10 - 159*	*12/20/22 07:34*	*12/22/22 10:17*	*1*
13C3 HFPO-DA	*92*		*17 - 185*	*12/20/22 07:34*	*12/22/22 10:17*	*1*

Client Sample ID: ACK-01-12072022

Lab Sample ID: 410-108758-6

Date Collected: 12/07/22 11:30

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**3.8**		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1

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

Job ID: 410-108758-1

Client Sample ID: ACK-01-12072022
Date Collected: 12/07/22 11:30
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-6
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorohexanesulfonic acid	**20**		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
NEtFOSAA	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:26	1
NMeFOSAA	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
10:2 FTS	<4.5		4.5		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluoropentanesulfonic acid	**2.1**		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorobutanoic acid	<4.5		4.5		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
NMeFOSE	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:26	1
NMeFOSA	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:26	1
NEtFOSE	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:26	1
NEtFOSA	<4.5		4.5		ng/L		12/21/22 07:41	12/28/22 02:26	1
HFPODA	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:26	1
DONA	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:26	1
6:2 Fluorotelomer sulfonic acid	<4.5		4.5		ng/L		12/21/22 07:41	12/28/22 02:26	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*102*		*10 - 200*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
M2-8:2 FTS	*102*		*33 - 200*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
M2-6:2 FTS	*111*		*17 - 200*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C5 PFHxA	*101*		*24 - 179*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C4 PFHpA	*114*		*31 - 182*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C8 PFOA	*106*		*48 - 162*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C9 PFNA	*109*		*51 - 167*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C6 PFDA	*99*		*49 - 163*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C7 PFUnA	*99*		*34 - 174*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C2-PFDoDA	*89*		*17 - 176*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C2 PFTeDA	*79*		*10 - 179*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C3 PFBS	*136*		*16 - 200*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C3 PFHxS	*118*		*28 - 188*	*12/21/22 07:41*	*12/28/22 02:26*	*1*
13C8 PFOS	*109*		*51 - 159*	*12/21/22 07:41*	*12/28/22 02:26*	*1*

Client Sample ID: ACK-01-12072022

Lab Sample ID: 410-108758-6

Date Collected: 12/07/22 11:30

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	93		31 - 174	12/21/22 07:41	12/28/22 02:26	1
d5-NEtFOSAA	93		29 - 195	12/21/22 07:41	12/28/22 02:26	1
13C8 FOSA	99		10 - 168	12/21/22 07:41	12/28/22 02:26	1
13C4 PFBA	112		42 - 165	12/21/22 07:41	12/28/22 02:26	1
13C5 PFPeA	131		38 - 187	12/21/22 07:41	12/28/22 02:26	1
d7-N-MeFOSE-M	88		10 - 178	12/21/22 07:41	12/28/22 02:26	1
d3-NMePFOSA	29		10 - 155	12/21/22 07:41	12/28/22 02:26	1
d9-N-EtFOSE-M	83		10 - 177	12/21/22 07:41	12/28/22 02:26	1
d5-NEtPFOSA	29		10 - 159	12/21/22 07:41	12/28/22 02:26	1
13C3 HFPO-DA	116		17 - 185	12/21/22 07:41	12/28/22 02:26	1

Client Sample ID: TACK-10-12072022

Lab Sample ID: 410-108758-7

Date Collected: 12/07/22 14:05

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**6.4**		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluoroheptanoic acid	**3.4**		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorooctanoic acid	**3.3**		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorobutanesulfonic acid	**1.8**		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorohexanesulfonic acid	**2.6**		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorooctanesulfonic acid	**2.3**		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
NEtFOSAA	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:37	1
NMeFOSAA	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
10:2 FTS	<4.5		4.5		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorobutanoic acid	**7.0**		4.5		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluoropentanoic acid	**6.9**		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
NMeFOSE	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:37	1
NMeFOSA	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:37	1
NEtFOSE	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:37	1
NEtFOSA	<4.5		4.5		ng/L		12/21/22 07:41	12/28/22 02:37	1
HFPODA	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:37	1
DONA	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1

Client Sample ID: TACK-10-12072022

Lab Sample ID: 410-108758-7

Date Collected: 12/07/22 14:05

Matrix: Water

Date Received: 12/10/22 10:00

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	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/21/22 07:41	12/28/22 02:37	1
6:2 Fluorotelomer sulfonic acid	**42**		4.5		ng/L		12/21/22 07:41	12/28/22 02:37	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/21/22 07:41	12/28/22 02:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*134*		*10 - 200*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
M2-8:2 FTS	*103*		*33 - 200*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
M2-6:2 FTS	*107*		*17 - 200*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C5 PFHxA	*103*		*24 - 179*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C4 PFHpA	*105*		*31 - 182*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C8 PFOA	*101*		*48 - 162*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C9 PFNA	*106*		*51 - 167*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C6 PFDA	*95*		*49 - 163*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C7 PFUnA	*76*		*34 - 174*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C2-PFDoDA	*67*		*17 - 176*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C2 PFTeDA	*51*		*10 - 179*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C3 PFBS	*113*		*16 - 200*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C3 PFHxS	*104*		*28 - 188*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C8 PFOS	*106*		*51 - 159*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
d3-NMeFOSAA	*101*		*31 - 174*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
d5-NEtFOSAA	*93*		*29 - 195*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C8 FOSA	*81*		*10 - 168*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C4 PFBA	*106*		*42 - 165*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C5 PFPeA	*110*		*38 - 187*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
d7-N-MeFOSE-M	*64*		*10 - 178*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
d3-NMePFOSA	*27*		*10 - 155*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
d9-N-EtFOSE-M	*59*		*10 - 177*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
d5-NEtPFOSA	*27*		*10 - 159*	*12/21/22 07:41*	*12/28/22 02:37*	*1*
13C3 HFPO-DA	*106*		*17 - 185*	*12/21/22 07:41*	*12/28/22 02:37*	*1*

Client Sample ID: TACK-01-12082022

Lab Sample ID: 410-108758-8

Date Collected: 12/08/22 09:50

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorohexanesulfonic acid	**4.0**		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
NEtFOSAA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:08	1
NMeFOSAA	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
10:2 FTS	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1

Client Sample ID: TACK-01-12082022
Date Collected: 12/08/22 09:50
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-8
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorobutanoic acid	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
NMeFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:08	1
NMeFOSA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:08	1
NEtFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:08	1
NEtFOSA	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:08	1
HFPODA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:08	1
DONA	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:08	1
6:2 Fluorotelomer sulfonic acid	**8.3**		4.4		ng/L		12/22/22 10:38	12/28/22 05:08	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*166*		*10 - 200*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
M2-8:2 FTS	*150*		*33 - 200*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
M2-6:2 FTS	*152*		*17 - 200*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C5 PFHxA	*128*		*24 - 179*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C4 PFHpA	*129*		*31 - 182*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C8 PFOA	*127*		*48 - 162*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C9 PFNA	*152*		*51 - 167*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C6 PFDA	*129*		*49 - 163*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C7 PFUnA	*145*		*34 - 174*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C2-PFDoDA	*132*		*17 - 176*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C2 PFTeDA	*131*		*10 - 179*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C3 PFBS	*136*		*16 - 200*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C3 PFHxS	*139*		*28 - 188*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C8 PFOS	*150*		*51 - 159*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
d3-NMeFOSAA	*160*		*31 - 174*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
d5-NEtFOSAA	*170*		*29 - 195*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C8 FOSA	*126*		*10 - 168*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C4 PFBA	*129*		*42 - 165*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C5 PFPeA	*129*		*38 - 187*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
d7-N-MeFOSE-M	*115*		*10 - 178*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
d3-NMePFOSA	*86*		*10 - 155*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
d9-N-EtFOSE-M	*118*		*10 - 177*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
d5-NEtPFOSA	*93*		*10 - 159*	*12/22/22 10:38*	*12/28/22 05:08*	*1*
13C3 HFPO-DA	*122*		*17 - 185*	*12/22/22 10:38*	*12/28/22 05:08*	*1*

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

Job ID: 410-108758-1

Client Sample ID: TACK-02-12082022

Date Collected: 12/08/22 12:00
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-9

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
NEtFOSAA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:20	1
NMeFOSAA	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
10:2 FTS	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorobutanoic acid	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
NMeFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:20	1
NMeFOSA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:20	1
NEtFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:20	1
NEtFOSA	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:20	1
HFPODA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:20	1
DONA	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:20	1
6:2 Fluorotelomer sulfonic acid	**26**		4.4		ng/L		12/22/22 10:38	12/28/22 05:20	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*159*		*10 - 200*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
M2-8:2 FTS	*150*		*33 - 200*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
M2-6:2 FTS	*163*		*17 - 200*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
13C5 PFHxA	*128*		*24 - 179*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
13C4 PFHpA	*130*		*31 - 182*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
13C8 PFOA	*128*		*48 - 162*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
13C9 PFNA	*145*		*51 - 167*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
13C6 PFDA	*130*		*49 - 163*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
13C7 PFUnA	*138*		*34 - 174*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
13C2-PFDoDA	*113*		*17 - 176*	*12/22/22 10:38*	*12/28/22 05:20*	*1*
13C2 PFTeDA	*104*		*10 - 179*	*12/22/22 10:38*	*12/28/22 05:20*	*1*

Client Sample ID: TACK-02-12082022

Lab Sample ID: 410-108758-9

Date Collected: 12/08/22 12:00

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	125		16 - 200	12/22/22 10:38	12/28/22 05:20	1
13C3 PFHxS	137		28 - 188	12/22/22 10:38	12/28/22 05:20	1
13C8 PFOS	134		51 - 159	12/22/22 10:38	12/28/22 05:20	1
d3-NMeFOSAA	151		31 - 174	12/22/22 10:38	12/28/22 05:20	1
d5-NEtFOSAA	157		29 - 195	12/22/22 10:38	12/28/22 05:20	1
13C8 FOSA	130		10 - 168	12/22/22 10:38	12/28/22 05:20	1
13C4 PFBA	132		42 - 165	12/22/22 10:38	12/28/22 05:20	1
13C5 PFPeA	120		38 - 187	12/22/22 10:38	12/28/22 05:20	1
d7-N-MeFOSE-M	113		10 - 178	12/22/22 10:38	12/28/22 05:20	1
d3-NMePFOSA	79		10 - 155	12/22/22 10:38	12/28/22 05:20	1
d9-N-EtFOSE-M	110		10 - 177	12/22/22 10:38	12/28/22 05:20	1
d5-NEtPFOSA	78		10 - 159	12/22/22 10:38	12/28/22 05:20	1
13C3 HFPO-DA	149		17 - 185	12/22/22 10:38	12/28/22 05:20	1

Client Sample ID: TACK-05-12082022

Lab Sample ID: 410-108758-10

Date Collected: 12/08/22 15:50

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorononanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
NEtFOSAA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:31	1
NMeFOSAA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
10:2 FTS	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorobutanoic acid	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
NMeFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:31	1
NMeFOSA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:31	1
NEtFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:31	1
NEtFOSA	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:31	1
HFPODA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:31	1
DONA	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1

Client Sample ID: TACK-05-12082022

Lab Sample ID: 410-108758-10

Date Collected: 12/08/22 15:50

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/22/22 10:38	12/28/22 05:31	1
6:2 Fluorotelomer sulfonic acid	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:31	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*149*		*10 - 200*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
M2-8:2 FTS	*137*		*33 - 200*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
M2-6:2 FTS	*142*		*17 - 200*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C5 PFHxA	*126*		*24 - 179*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C4 PFHpA	*129*		*31 - 182*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C8 PFOA	*127*		*48 - 162*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C9 PFNA	*152*		*51 - 167*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C6 PFDA	*133*		*49 - 163*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C7 PFUnA	*141*		*34 - 174*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C2-PFDoDA	*129*		*17 - 176*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C2 PFTeDA	*117*		*10 - 179*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C3 PFBS	*139*		*16 - 200*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C3 PFHxS	*133*		*28 - 188*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C8 PFOS	*146*		*51 - 159*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
d3-NMeFOSAA	*157*		*31 - 174*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
d5-NEtFOSAA	*167*		*29 - 195*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C8 FOSA	*128*		*10 - 168*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C4 PFBA	*128*		*42 - 165*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C5 PFPeA	*138*		*38 - 187*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
d7-N-MeFOSE-M	*123*		*10 - 178*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
d3-NMePFOSA	*83*		*10 - 155*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
d9-N-EtFOSE-M	*125*		*10 - 177*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
d5-NEtPFOSA	*91*		*10 - 159*	*12/22/22 10:38*	*12/28/22 05:31*	*1*
13C3 HFPO-DA	*127*		*17 - 185*	*12/22/22 10:38*	*12/28/22 05:31*	*1*

Client Sample ID: TACK-06-12082022

Lab Sample ID: 410-108758-11

Date Collected: 12/08/22 14:05

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**4.6**		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
NEtFOSAA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:42	1

Client Sample ID: TACK-06-12082022
Date Collected: 12/08/22 14:05
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-11
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
10:2 FTS	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorobutanoic acid	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluoropentanoic acid	**4.2**		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
NMeFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:42	1
NMeFOSA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:42	1
NEtFOSE	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:42	1
NEtFOSA	<4.4		4.4		ng/L		12/22/22 10:38	12/28/22 05:42	1
HFPODA	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:42	1
DONA	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:42	1
6:2 Fluorotelomer sulfonic acid	**7.9**		4.4		ng/L		12/22/22 10:38	12/28/22 05:42	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		12/22/22 10:38	12/28/22 05:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*239*	*5+ cn	*10 - 200*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
M2-8:2 FTS	*163*		*33 - 200*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
M2-6:2 FTS	*155*		*17 - 200*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C5 PFHxA	*128*		*24 - 179*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C4 PFHpA	*130*		*31 - 182*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C8 PFOA	*126*		*48 - 162*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C9 PFNA	*144*		*51 - 167*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C6 PFDA	*125*		*49 - 163*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C7 PFUnA	*136*		*34 - 174*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C2-PFDoDA	*131*		*17 - 176*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C2 PFTeDA	*126*		*10 - 179*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C3 PFBS	*122*		*16 - 200*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C3 PFHxS	*130*		*28 - 188*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C8 PFOS	*129*		*51 - 159*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
d3-NMeFOSAA	*161*		*31 - 174*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
d5-NEtFOSAA	*180*		*29 - 195*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C8 FOSA	*123*		*10 - 168*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C4 PFBA	*128*		*42 - 165*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
13C5 PFPeA	*131*		*38 - 187*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
d7-N-MeFOSE-M	*111*		*10 - 178*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
d3-NMePFOSA	*73*		*10 - 155*	*12/22/22 10:38*	*12/28/22 05:42*	*1*
d9-N-EtFOSE-M	*114*		*10 - 177*	*12/22/22 10:38*	*12/28/22 05:42*	*1*

Client Sample ID: TACK-06-12082022

Lab Sample ID: 410-108758-11

Date Collected: 12/08/22 14:05

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	77		10 - 159	12/22/22 10:38	12/28/22 05:42	1
13C3 HFPO-DA	133		17 - 185	12/22/22 10:38	12/28/22 05:42	1

Client Sample ID: EB-12082022

Lab Sample ID: 410-108758-12

Date Collected: 12/08/22 14:25

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
NEtFOSAA	<2.7		2.7		ng/L		12/22/22 10:38	12/28/22 05:53	1
NMeFOSAA	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
10:2 FTS	<4.5		4.5		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorobutanoic acid	<4.5		4.5		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
NMeFOSE	<2.7		2.7		ng/L		12/22/22 10:38	12/28/22 05:53	1
NMeFOSA	<2.7		2.7		ng/L		12/22/22 10:38	12/28/22 05:53	1
NEtFOSE	<2.7		2.7		ng/L		12/22/22 10:38	12/28/22 05:53	1
NEtFOSA	<4.5		4.5		ng/L		12/22/22 10:38	12/28/22 05:53	1
HFPODA	<2.7		2.7		ng/L		12/22/22 10:38	12/28/22 05:53	1
DONA	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/22/22 10:38	12/28/22 05:53	1
6:2 Fluorotelomer sulfonic acid	<4.5		4.5		ng/L		12/22/22 10:38	12/28/22 05:53	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/22/22 10:38	12/28/22 05:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	133		10 - 200	12/22/22 10:38	12/28/22 05:53	1
M2-8:2 FTS	141		33 - 200	12/22/22 10:38	12/28/22 05:53	1
M2-6:2 FTS	154		17 - 200	12/22/22 10:38	12/28/22 05:53	1

Client Sample ID: EB-12082022

Lab Sample ID: 410-108758-12

Date Collected: 12/08/22 14:25

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	135		24 - 179	12/22/22 10:38	12/28/22 05:53	1
13C4 PFHpA	133		31 - 182	12/22/22 10:38	12/28/22 05:53	1
13C8 PFOA	135		48 - 162	12/22/22 10:38	12/28/22 05:53	1
13C9 PFNA	160		51 - 167	12/22/22 10:38	12/28/22 05:53	1
13C6 PFDA	136		49 - 163	12/22/22 10:38	12/28/22 05:53	1
13C7 PFUnA	146		34 - 174	12/22/22 10:38	12/28/22 05:53	1
13C2-PFDoDA	146		17 - 176	12/22/22 10:38	12/28/22 05:53	1
13C2 PFTeDA	141		10 - 179	12/22/22 10:38	12/28/22 05:53	1
13C3 PFBS	136		16 - 200	12/22/22 10:38	12/28/22 05:53	1
13C3 PFHxS	140		28 - 188	12/22/22 10:38	12/28/22 05:53	1
13C8 PFOS	148		51 - 159	12/22/22 10:38	12/28/22 05:53	1
d3-NMeFOSAA	163		31 - 174	12/22/22 10:38	12/28/22 05:53	1
d5-NEtFOSAA	174		29 - 195	12/22/22 10:38	12/28/22 05:53	1
13C8 FOSA	142		10 - 168	12/22/22 10:38	12/28/22 05:53	1
13C4 PFBA	138		42 - 165	12/22/22 10:38	12/28/22 05:53	1
13C5 PFPeA	138		38 - 187	12/22/22 10:38	12/28/22 05:53	1
d7-N-MeFOSE-M	89		10 - 178	12/22/22 10:38	12/28/22 05:53	1
d3-NMePFOSA	48		10 - 155	12/22/22 10:38	12/28/22 05:53	1
d9-N-EtFOSE-M	88		10 - 177	12/22/22 10:38	12/28/22 05:53	1
d5-NEtPFOSA	50		10 - 159	12/22/22 10:38	12/28/22 05:53	1
13C3 HFPO-DA	124		17 - 185	12/22/22 10:38	12/28/22 05:53	1

Client Sample ID: TACK-08-12092022

Lab Sample ID: 410-108758-13

Date Collected: 12/09/22 08:45

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**200**		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluoroheptanoic acid	**76**		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorooctanoic acid	**16**		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorononanoic acid	**3.0**		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorohexanesulfonic acid	**33**		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorooctanesulfonic acid	**120**		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
NEtFOSAA	<2.5		2.5		ng/L		12/22/22 07:52	12/29/22 23:08	1
NMeFOSAA	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
10:2 FTS	<4.2		4.2		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluoropentanesulfonic acid	**2.0**		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		12/22/22 07:52	12/29/22 23:08	1

Client Sample ID: TACK-08-12092022

Lab Sample ID: 410-108758-13

Date Collected: 12/09/22 08:45

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**76**		4.2		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluoropentanoic acid	**260**		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
NMeFOSE	<2.5		2.5		ng/L		12/22/22 07:52	12/29/22 23:08	1
NMeFOSA	<2.5		2.5		ng/L		12/22/22 07:52	12/29/22 23:08	1
NEtFOSE	<2.5		2.5		ng/L		12/22/22 07:52	12/29/22 23:08	1
NEtFOSA	<4.2		4.2		ng/L		12/22/22 07:52	12/29/22 23:08	1
HFPODA	<2.5		2.5		ng/L		12/22/22 07:52	12/29/22 23:08	1
DONA	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/22/22 07:52	12/29/22 23:08	1
6:2 Fluorotelomer sulfonic acid	**13**		4.2		ng/L		12/22/22 07:52	12/29/22 23:08	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		12/22/22 07:52	12/29/22 23:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*136*		*10 - 200*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
M2-8:2 FTS	*139*		*33 - 200*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
M2-6:2 FTS	*144*		*17 - 200*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C5 PFHxA	*116*		*24 - 179*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C4 PFHpA	*121*		*31 - 182*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C8 PFOA	*129*		*48 - 162*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C9 PFNA	*142*		*51 - 167*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C6 PFDA	*126*		*49 - 163*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C7 PFUnA	*129*		*34 - 174*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C2-PFDoDA	*120*		*17 - 176*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C2 PFTeDA	*114*		*10 - 179*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C3 PFBS	*148*		*16 - 200*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C3 PFHxS	*130*		*28 - 188*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C8 PFOS	*139*		*51 - 159*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
d3-NMeFOSAA	*123*		*31 - 174*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
d5-NEtFOSAA	*132*	*cn*	*29 - 195*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C8 FOSA	*117*		*10 - 168*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C4 PFBA	*133*		*42 - 165*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C5 PFPeA	*135*		*38 - 187*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
d7-N-MeFOSE-M	*95*		*10 - 178*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
d3-NMePFOSA	*33*		*10 - 155*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
d9-N-EtFOSE-M	*94*		*10 - 177*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
d5-NEtPFOSA	*34*		*10 - 159*	*12/22/22 07:52*	*12/29/22 23:08*	*1*
13C3 HFPO-DA	*141*		*17 - 185*	*12/22/22 07:52*	*12/29/22 23:08*	*1*

Client Sample ID: TACK-09-12092022

Lab Sample ID: 410-108758-14

Date Collected: 12/09/22 10:15

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**4.0**		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluoroheptanoic acid	**3.1**		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorooctanoic acid	**6.0**		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1

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

Job ID: 410-108758-1

Client Sample ID: TACK-09-12092022

Date Collected: 12/09/22 10:15
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-14

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	**7.7**		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorohexanesulfonic acid	**2.3**		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorooctanesulfonic acid	**18**		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
NEtFOSAA	<2.6		2.6		ng/L		12/22/22 07:52	12/29/22 23:20	1
NMeFOSAA	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
10:2 FTS	<4.4		4.4		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorobutanoic acid	<4.4		4.4		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluoropentanoic acid	**4.2**		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
NMeFOSE	<2.6		2.6		ng/L		12/22/22 07:52	12/29/22 23:20	1
NMeFOSA	<2.6		2.6		ng/L		12/22/22 07:52	12/29/22 23:20	1
NEtFOSE	<2.6		2.6		ng/L		12/22/22 07:52	12/29/22 23:20	1
NEtFOSA	<4.4		4.4		ng/L		12/22/22 07:52	12/29/22 23:20	1
HFPODA	<2.6		2.6		ng/L		12/22/22 07:52	12/29/22 23:20	1
DONA	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/22/22 07:52	12/29/22 23:20	1
6:2 Fluorotelomer sulfonic acid	**6.5**		4.4		ng/L		12/22/22 07:52	12/29/22 23:20	1
8:2 Fluorotelomer sulfonic acid	<2.6		2.6		ng/L		12/22/22 07:52	12/29/22 23:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*149*		*10 - 200*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
M2-8:2 FTS	*145*		*33 - 200*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
M2-6:2 FTS	*136*		*17 - 200*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C5 PFHxA	*127*		*24 - 179*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C4 PFHpA	*125*		*31 - 182*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C8 PFOA	*115*		*48 - 162*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C9 PFNA	*137*		*51 - 167*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C6 PFDA	*125*		*49 - 163*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C7 PFUnA	*143*		*34 - 174*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C2-PFDoDA	*125*		*17 - 176*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C2 PFTeDA	*118*		*10 - 179*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C3 PFBS	*140*		*16 - 200*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C3 PFHxS	*128*		*28 - 188*	*12/22/22 07:52*	*12/29/22 23:20*	*1*
13C8 PFOS	*136*		*51 - 159*	*12/22/22 07:52*	*12/29/22 23:20*	*1*

Client Sample ID: TACK-09-12092022

Lab Sample ID: 410-108758-14

Date Collected: 12/09/22 10:15

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	163		31 - 174	12/22/22 07:52	12/29/22 23:20	1
d5-NEtFOSAA	174	cn	29 - 195	12/22/22 07:52	12/29/22 23:20	1
13C8 FOSA	130		10 - 168	12/22/22 07:52	12/29/22 23:20	1
13C4 PFBA	126		42 - 165	12/22/22 07:52	12/29/22 23:20	1
13C5 PFPeA	142		38 - 187	12/22/22 07:52	12/29/22 23:20	1
d7-N-MeFOSE-M	119		10 - 178	12/22/22 07:52	12/29/22 23:20	1
d3-NMePFOSA	65		10 - 155	12/22/22 07:52	12/29/22 23:20	1
d9-N-EtFOSE-M	114		10 - 177	12/22/22 07:52	12/29/22 23:20	1
d5-NEtPFOSA	65		10 - 159	12/22/22 07:52	12/29/22 23:20	1
13C3 HFPO-DA	124		17 - 185	12/22/22 07:52	12/29/22 23:20	1

Client Sample ID: TACK-04-12092022

Lab Sample ID: 410-108758-15

Date Collected: 12/09/22 11:35

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
NEtFOSAA	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 18:57	1
NMeFOSAA	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
10:2 FTS	<4.5	cn	4.5		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorobutanoic acid	<4.5		4.5		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
NMeFOSE	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 18:57	1
NMeFOSA	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 18:57	1
NEtFOSE	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 18:57	1
NEtFOSA	<4.5		4.5		ng/L		12/21/22 15:18	12/23/22 18:57	1
HFPODA	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 18:57	1
DONA	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1

Client Sample ID: TACK-04-12092022

Lab Sample ID: 410-108758-15

Date Collected: 12/09/22 11:35

Matrix: Water

Date Received: 12/10/22 10:00

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	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 18:57	1
6:2 Fluorotelomer sulfonic acid	<4.5		4.5		ng/L		12/21/22 15:18	12/23/22 18:57	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 18:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*107*		*10 - 200*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
M2-8:2 FTS	*78*		*33 - 200*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
M2-6:2 FTS	*85*		*17 - 200*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C5 PFHxA	*99*		*24 - 179*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C4 PFHpA	*101*		*31 - 182*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C8 PFOA	*98*		*48 - 162*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C9 PFNA	*103*		*51 - 167*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C6 PFDA	*97*		*49 - 163*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C7 PFUnA	*98*		*34 - 174*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C2-PFDoDA	*100*		*17 - 176*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C2 PFTeDA	*96*		*10 - 179*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C3 PFBS	*93*		*16 - 200*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C3 PFHxS	*97*		*28 - 188*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C8 PFOS	*97*		*51 - 159*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
d3-NMeFOSAA	*103*		*31 - 174*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
d5-NEtFOSAA	*110*		*29 - 195*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C8 FOSA	*83*		*10 - 168*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C4 PFBA	*101*		*42 - 165*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C5 PFPeA	*96*		*38 - 187*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
d7-N-MeFOSE-M	*75*		*10 - 178*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
d3-NMePFOSA	*15*		*10 - 155*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
d9-N-EtFOSE-M	*77*		*10 - 177*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
d5-NEtPFOSA	*16*		*10 - 159*	*12/21/22 15:18*	*12/23/22 18:57*	*1*
13C3 HFPO-DA	*123*	*cn*	*17 - 185*	*12/21/22 15:18*	*12/23/22 18:57*	*1*

Client Sample ID: FB-120922

Lab Sample ID: 410-108758-16

Date Collected: 12/09/22 11:55

Matrix: Water

Date Received: 12/10/22 10:00

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorononanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
NEtFOSAA	<2.5		2.5		ng/L		12/21/22 15:18	12/23/22 19:08	1
NMeFOSAA	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
10:2 FTS	<4.2	cn	4.2		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1

Client Sample ID: FB-120922
Date Collected: 12/09/22 11:55
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-16
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorobutanoic acid	<4.2		4.2		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
NMeFOSE	<2.5		2.5		ng/L		12/21/22 15:18	12/23/22 19:08	1
NMeFOSA	<2.5		2.5		ng/L		12/21/22 15:18	12/23/22 19:08	1
NEtFOSE	<2.5		2.5		ng/L		12/21/22 15:18	12/23/22 19:08	1
NEtFOSA	<4.2		4.2		ng/L		12/21/22 15:18	12/23/22 19:08	1
HFPODA	<2.5		2.5		ng/L		12/21/22 15:18	12/23/22 19:08	1
DONA	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/21/22 15:18	12/23/22 19:08	1
6:2 Fluorotelomer sulfonic acid	<4.2		4.2		ng/L		12/21/22 15:18	12/23/22 19:08	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		12/21/22 15:18	12/23/22 19:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
M2-8:2 FTS	*75*		*33 - 200*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
M2-6:2 FTS	*92*		*17 - 200*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C5 PFHxA	*109*		*24 - 179*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C4 PFHpA	*107*		*31 - 182*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C8 PFOA	*101*		*48 - 162*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C9 PFNA	*125*		*51 - 167*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C6 PFDA	*103*		*49 - 163*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C7 PFUnA	*102*		*34 - 174*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C2-PFDoDA	*107*		*17 - 176*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C2 PFTeDA	*110*		*10 - 179*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C3 PFBS	*89*		*16 - 200*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C3 PFHxS	*100*		*28 - 188*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C8 PFOS	*105*		*51 - 159*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
d3-NMeFOSAA	*104*		*31 - 174*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
d5-NEtFOSAA	*112*		*29 - 195*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C8 FOSA	*90*		*10 - 168*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C4 PFBA	*100*		*42 - 165*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C5 PFPeA	*100*		*38 - 187*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
d7-N-MeFOSE-M	*86*		*10 - 178*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
d3-NMePFOSA	*58*		*10 - 155*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
d9-N-EtFOSE-M	*88*		*10 - 177*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
d5-NEtPFOSA	*57*		*10 - 159*	*12/21/22 15:18*	*12/23/22 19:08*	*1*
13C3 HFPO-DA	*131*	*cn*	*17 - 185*	*12/21/22 15:18*	*12/23/22 19:08*	*1*

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

Job ID: 410-108758-1

Client Sample ID: TACK-03-12092022

Date Collected: 12/09/22 14:10
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-17

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**91**		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorooctanoic acid	**57**		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorobutanesulfonic acid	**26**		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorooctanesulfonic acid	**290**		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
NEtFOSAA	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 19:19	1
NMeFOSAA	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
10:2 FTS	<4.4	cn	4.4		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluoropentanesulfonic acid	**38**		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluoroheptanesulfonic acid	**23**		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorobutanoic acid	**340**		4.4		ng/L		12/21/22 15:18	12/23/22 19:19	1
NMeFOSE	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 19:19	1
NMeFOSA	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 19:19	1
NEtFOSE	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 19:19	1
NEtFOSA	<4.4		4.4		ng/L		12/21/22 15:18	12/23/22 19:19	1
HFPODA	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 19:19	1
DONA	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/21/22 15:18	12/23/22 19:19	1
6:2 Fluorotelomer sulfonic acid	**42**		4.4		ng/L		12/21/22 15:18	12/23/22 19:19	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/21/22 15:18	12/23/22 19:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*113*		*10 - 200*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
M2-8:2 FTS	*76*		*33 - 200*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
M2-6:2 FTS	*87*		*17 - 200*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C5 PFHxA	*73*		*24 - 179*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C4 PFHpA	*55*		*31 - 182*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C8 PFOA	*86*		*48 - 162*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C9 PFNA	*100*		*51 - 167*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C6 PFDA	*90*		*49 - 163*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C7 PFUnA	*94*		*34 - 174*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C2-PFDoDA	*94*		*17 - 176*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C3 PFBS	*94*		*16 - 200*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C3 PFHxS	*57*		*28 - 188*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C8 PFOS	*98*		*51 - 159*	*12/21/22 15:18*	*12/23/22 19:19*	*1*

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

Job ID: 410-108758-1

Client Sample ID: TACK-03-12092022

Date Collected: 12/09/22 14:10
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-17

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d3-NMeFOSAA	*96*		*31 - 174*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
d5-NEtFOSAA	*111*		*29 - 195*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C8 FOSA	*76*		*10 - 168*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C4 PFBA	*90*		*42 - 165*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C5 PFPeA	*74*		*38 - 187*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
d7-N-MeFOSE-M	*90*		*10 - 178*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
d3-NMePFOSA	*65*		*10 - 155*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
d9-N-EtFOSE-M	*93*		*10 - 177*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
d5-NEtPFOSA	*66*		*10 - 159*	*12/21/22 15:18*	*12/23/22 19:19*	*1*
13C3 HFPO-DA	*104*	*cn*	*17 - 185*	*12/21/22 15:18*	*12/23/22 19:19*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**660**		18		ng/L		12/21/22 15:18	12/27/22 17:23	10
Perfluorohexanesulfonic acid	**2400**		18		ng/L		12/21/22 15:18	12/27/22 17:23	10
Perfluoropentanoic acid	**2000**		18		ng/L		12/21/22 15:18	12/27/22 17:23	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFHxA	*108*		*24 - 179*	*12/21/22 15:18*	*12/27/22 17:23*	*10*
13C3 PFHxS	*103*		*28 - 188*	*12/21/22 15:18*	*12/27/22 17:23*	*10*
13C5 PFPeA	*112*		*38 - 187*	*12/21/22 15:18*	*12/27/22 17:23*	*10*

Isotope Dilution Summary

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

Job ID: 410-108758-1

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 (10-200)	M282FTS (33-200)	M262FTS (17-200)	13C5PHA (24-179)	C4PFHA (31-182)	C8PFOA (48-162)	C9PFNA (51-167)	C6PFDA (49-163)
410-108758-1	EB-120622	103	114	116	103	102	101	115	98
410-108758-2	EB-120622-2	106	111	112	106	104	104	119	98
410-108758-3	EB-120622-3	104	104	126	107	105	105	118	104
410-108758-4	ACK-14-12062022	149	120	119	102	100	101	118	100
410-108758-5	ACK-14-12062022 DUP	144	123	114	93	94	94	118	98
410-108758-6	ACK-01-12072022	102	102	111	101	114	106	109	99
410-108758-7	TACK-10-12072022	134	103	107	103	105	101	106	95
410-108758-8	TACK-01-12082022	166	150	152	128	129	127	152	129
410-108758-9	TACK-02-12082022	159	150	163	128	130	128	145	130
410-108758-10	TACK-05-12082022	149	137	142	126	129	127	152	133
410-108758-11	TACK-06-12082022	239 *5+ cn	163	155	128	130	126	144	125
410-108758-12	EB-12082022	133	141	154	135	133	135	160	136
410-108758-13	TACK-08-12092022	136	139	144	116	121	129	142	126
410-108758-14	TACK-09-12092022	149	145	136	127	125	115	137	125
410-108758-15	TACK-04-12092022	107	78	85	99	101	98	103	97
410-108758-16	FB-120922	92	75	92	109	107	101	125	103
410-108758-17	TACK-03-12092022	113	76	87	73	55	86	100	90
410-108758-17 - DL	TACK-03-12092022				108				
LCS 410-328798/3-A	Lab Control Sample	94	115	110	96	96	99	113	98
LCS 410-329281/3-A	Lab Control Sample	107	112	119	103	101	99	119	101
LCS 410-329512/2-A	Lab Control Sample	99	90	91	101	101	99	101	100
LCS 410-329705/3-A	Lab Control Sample	122	123	122	118	122	116	135	126
LCS 410-329831/2-A	Lab Control Sample	110	133	119	117	116	117	136	118
LCSD 410-328798/4-A	Lab Control Sample Dup	97	116	112	99	98	99	112	109
LCSD 410-329281/4-A	Lab Control Sample Dup	88	96	85	94	90	89	91	85
LCSD 410-329512/3-A	Lab Control Sample Dup	97	95	97	100	93	93	104	95
LCSD 410-329705/4-A	Lab Control Sample Dup	120	141	142	129	130	130	145	132
LCSD 410-329831/3-A	Lab Control Sample Dup	98	107	111	103	102	101	117	104
MB 410-328798/1-A	Method Blank	96	112	102	100	98	100	111	101
MB 410-329281/1-A	Method Blank	116	128	112	112	105	104	115	107
MB 410-329512/1-A	Method Blank	97	89	96	95	100	95	108	97
MB 410-329705/1-A	Method Blank	109	117	112	110	108	107	124	103
MB 410-329831/1-A	Method Blank	123	144	143	134	134	132	143	129

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-108758-1	EB-120622	109	99	98	100	102	107	115	127
410-108758-2	EB-120622-2	107	96	101	97	102	108	118	126
410-108758-3	EB-120622-3	110	102	96	101	104	107	118	131
410-108758-4	ACK-14-12062022	112	100	97	123	104	110	118	129
410-108758-5	ACK-14-12062022 DUP	102	99	94	117	100	107	110	125
410-108758-6	ACK-01-12072022	99	89	79	136	118	109	93	93
410-108758-7	TACK-10-12072022	76	67	51	113	104	106	101	93
410-108758-8	TACK-01-12082022	145	132	131	136	139	150	160	170
410-108758-9	TACK-02-12082022	138	113	104	125	137	134	151	157
410-108758-10	TACK-05-12082022	141	129	117	139	133	146	157	167
410-108758-11	TACK-06-12082022	136	131	126	122	130	129	161	180
410-108758-12	EB-12082022	146	146	141	136	140	148	163	174

Isotope Dilution Summary

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

Job ID: 410-108758-1

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 (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-108758-13	TACK-08-12092022	129	120	114	148	130	139	123	132 cn
410-108758-14	TACK-09-12092022	143	125	118	140	128	136	163	174 cn
410-108758-15	TACK-04-12092022	98	100	96	93	97	97	103	110
410-108758-16	FB-120922	102	107	110	89	100	105	104	112
410-108758-17	TACK-03-12092022	94	94	101	94	57	98	96	111
410-108758-17 - DL	TACK-03-12092022					103			
LCS 410-328798/3-A	Lab Control Sample	103	95	95	102	100	107	112	116
LCS 410-329281/3-A	Lab Control Sample	98	101	97	110	102	116	101	94
LCS 410-329512/2-A	Lab Control Sample	95	98	113	101	102	105	103	105
LCS 410-329705/3-A	Lab Control Sample	127	117	114	113	122	125	139	146
LCS 410-329831/2-A	Lab Control Sample	126	122	116	121	122	129	141	152
LCSD 410-328798/4-A	Lab Control Sample Dup	119	103	105	98	96	105	120	132
LCSD 410-329281/4-A	Lab Control Sample Dup	87	93	111	85	97	94	91	95
LCSD 410-329512/3-A	Lab Control Sample Dup	92	95	97	95	98	108	103	99
LCSD 410-329705/4-A	Lab Control Sample Dup	137	128	127	131	134	140	145	165
LCSD 410-329831/3-A	Lab Control Sample Dup	108	102	101	102	104	112	121	126
MB 410-328798/1-A	Method Blank	104	98	92	98	98	102	117	118
MB 410-329281/1-A	Method Blank	115	127	145	116	109	115	123	144
MB 410-329512/1-A	Method Blank	95	96	98	94	98	108	101	101
MB 410-329705/1-A	Method Blank	114	99	100	107	110	117	110	132
MB 410-329831/1-A	Method Blank	135	126	122	133	137	138	144	153

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
410-108758-1	EB-120622	103	101	101	82	65	83	69	105
410-108758-2	EB-120622-2	103	104	105	73	51	74	51	104
410-108758-3	EB-120622-3	104	108	104	77	59	80	63	111
410-108758-4	ACK-14-12062022	102	110	123	90	63	87	65	105
410-108758-5	ACK-14-12062022 DUP	94	99	115	79	58	77	63	92
410-108758-6	ACK-01-12072022	99	112	131	88	29	83	29	116
410-108758-7	TACK-10-12072022	81	106	110	64	27	59	27	106
410-108758-8	TACK-01-12082022	126	129	129	115	86	118	93	122
410-108758-9	TACK-02-12082022	130	132	120	113	79	110	78	149
410-108758-10	TACK-05-12082022	128	128	138	123	83	125	91	127
410-108758-11	TACK-06-12082022	123	128	131	111	73	114	77	133
410-108758-12	EB-12082022	142	138	138	89	48	88	50	124
410-108758-13	TACK-08-12092022	117	133	135	95	33	94	34	141
410-108758-14	TACK-09-12092022	130	126	142	119	65	114	65	124
410-108758-15	TACK-04-12092022	83	101	96	75	15	77	16	123 cn
410-108758-16	FB-120922	90	100	100	86	58	88	57	131 cn
410-108758-17	TACK-03-12092022	76	90	74	90	65	93	66	104 cn
410-108758-17 - DL	TACK-03-12092022			112					
LCS 410-328798/3-A	Lab Control Sample	101	103	104	74	46	75	50	107
LCS 410-329281/3-A	Lab Control Sample	91	112	116	84	54	80	56	101
LCS 410-329512/2-A	Lab Control Sample	97	103	103	59	48	56	47	113
LCS 410-329705/3-A	Lab Control Sample	130	123	121	69	69	69	74	136
LCS 410-329831/2-A	Lab Control Sample	125	126	125	97	57	98	59	123
LCSD 410-328798/4-A	Lab Control Sample Dup	114	104	104	82	54	81	54	112
LCSD 410-329281/4-A	Lab Control Sample Dup	84	87	95	85	60	89	68	94
LCSD 410-329512/3-A	Lab Control Sample Dup	90	101	105	82	60	78	62	105

Isotope Dilution Summary

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

Job ID: 410-108758-1

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 (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
LCSD 410-329705/4-A	Lab Control Sample Dup	142	139	141	123	80	125	85	162
LCSD 410-329831/3-A	Lab Control Sample Dup	104	106	104	80	49	82	51	106
MB 410-328798/1-A	Method Blank	100	102	103	84	47	83	52	98
MB 410-329281/1-A	Method Blank	103	110	115	115	63	130	74	113
MB 410-329512/1-A	Method Blank	93	97	101	83	60	81	63	104
MB 410-329705/1-A	Method Blank	109	111	114	65	57	61	57	118
MB 410-329831/1-A	Method Blank	136	133	134	113	84	120	90	143

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

Lab Sample ID: MB 410-328798/1-A
Matrix: Water
Analysis Batch: 329334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorononanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
NEtFOSAA	<3.0		3.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
NMeFOSAA	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
10:2 FTS	<5.0		5.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
NMeFOSE	<3.0		3.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
NMeFOSA	<3.0		3.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
NEtFOSE	<3.0		3.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
NEtFOSA	<5.0		5.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
HFPODA	<3.0		3.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
DONA	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
9Cl-PF3ONS	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		12/20/22 07:34	12/22/22 06:45	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		12/20/22 07:34	12/22/22 06:45	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*96*		*10 - 200*	*12/20/22 07:34*	*12/22/22 06:45*	*1*
M2-8:2 FTS	*112*		*33 - 200*	*12/20/22 07:34*	*12/22/22 06:45*	*1*
M2-6:2 FTS	*102*		*17 - 200*	*12/20/22 07:34*	*12/22/22 06:45*	*1*
13C5 PFHxA	*100*		*24 - 179*	*12/20/22 07:34*	*12/22/22 06:45*	*1*
13C4 PFHpA	*98*		*31 - 182*	*12/20/22 07:34*	*12/22/22 06:45*	*1*
13C8 PFOA	*100*		*48 - 162*	*12/20/22 07:34*	*12/22/22 06:45*	*1*
13C9 PFNA	*111*		*51 - 167*	*12/20/22 07:34*	*12/22/22 06:45*	*1*
13C6 PFDA	*101*		*49 - 163*	*12/20/22 07:34*	*12/22/22 06:45*	*1*
13C7 PFUnA	*104*		*34 - 174*	*12/20/22 07:34*	*12/22/22 06:45*	*1*
13C2-PFDoDA	*98*		*17 - 176*	*12/20/22 07:34*	*12/22/22 06:45*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-328798/1-A
Matrix: Water
Analysis Batch: 329334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328798

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	92		10 - 179	12/20/22 07:34	12/22/22 06:45	1
13C3 PFBS	98		16 - 200	12/20/22 07:34	12/22/22 06:45	1
13C3 PFHxS	98		28 - 188	12/20/22 07:34	12/22/22 06:45	1
13C8 PFOS	102		51 - 159	12/20/22 07:34	12/22/22 06:45	1
d3-NMeFOSAA	117		31 - 174	12/20/22 07:34	12/22/22 06:45	1
d5-NEtFOSAA	118		29 - 195	12/20/22 07:34	12/22/22 06:45	1
13C8 FOSA	100		10 - 168	12/20/22 07:34	12/22/22 06:45	1
13C4 PFBA	102		42 - 165	12/20/22 07:34	12/22/22 06:45	1
13C5 PFPeA	103		38 - 187	12/20/22 07:34	12/22/22 06:45	1
d7-N-MeFOSE-M	84		10 - 178	12/20/22 07:34	12/22/22 06:45	1
d3-NMePFOSA	47		10 - 155	12/20/22 07:34	12/22/22 06:45	1
d9-N-EtFOSE-M	83		10 - 177	12/20/22 07:34	12/22/22 06:45	1
d5-NEtPFOSA	52		10 - 159	12/20/22 07:34	12/22/22 06:45	1
13C3 HFPO-DA	98		17 - 185	12/20/22 07:34	12/22/22 06:45	1

Lab Sample ID: LCS 410-328798/3-A
Matrix: Water
Analysis Batch: 329334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	22.4		ng/L		88	58 - 139
Perfluoroheptanoic acid	25.6	22.4		ng/L		88	59 - 145
Perfluorooctanoic acid	25.6	22.2		ng/L		87	51 - 145
Perfluorononanoic acid	25.6	23.0		ng/L		90	61 - 139
Perfluorodecanoic acid	25.6	23.7		ng/L		93	56 - 138
Perfluorotridecanoic acid	25.6	23.1		ng/L		90	58 - 146
Perfluorotetradecanoic acid	25.6	22.4		ng/L		88	62 - 139
Perfluorobutanesulfonic acid	22.7	20.3		ng/L		90	53 - 138
Perfluorohexanesulfonic acid	23.3	20.0		ng/L		86	58 - 134
Perfluorooctanesulfonic acid	23.7	20.2		ng/L		85	45 - 150
NEtFOSAA	25.6	22.5		ng/L		88	55 - 134
NMeFOSAA	25.6	22.8		ng/L		89	59 - 140
10:2 FTS	24.7	20.5		ng/L		83	50 - 146
Perfluoropentanesulfonic acid	24.0	22.7		ng/L		95	55 - 140
Perfluoroheptanesulfonic acid	24.4	18.9		ng/L		77	56 - 140
Perfluorononanesulfonic acid	24.6	21.6		ng/L		88	59 - 136
Perfluorodecanesulfonic acid	24.7	21.1		ng/L		85	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.3		ng/L		86	48 - 138
Perfluorooctanesulfonamide	25.6	22.2		ng/L		87	43 - 167
Perfluorohexadecanoic acid	25.6	19.9		ng/L		78	41 - 158
Perfluorooctadecanoic acid	25.6	19.7		ng/L		77	29 - 172
Perfluorobutanoic acid	25.6	20.0		ng/L		78	59 - 136
Perfluoropentanoic acid	25.6	21.5		ng/L		84	57 - 141
NMeFOSE	25.6	22.2		ng/L		87	55 - 144
NMeFOSA	25.6	25.8		ng/L		101	64 - 143
NEtFOSE	25.6	21.4		ng/L		83	60 - 136
NEtFOSA	25.6	23.2		ng/L		91	61 - 134
HFPODA	25.6	17.4		ng/L		68	50 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-328798/3-A
Matrix: Water
Analysis Batch: 329334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328798

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DONA			24.2	21.1		ng/L		87	55 - 143		
9Cl-PF3ONS			23.8	20.2		ng/L		85	59 - 135		
11Cl-PF3OUdS			23.8	21.5		ng/L		90	53 - 139		
Perfluorododecanoic acid			25.6	23.3		ng/L		91	59 - 143		
4:2 Fluorotelomer sulfonic acid			23.9	20.9		ng/L		87	55 - 139		
Perfluoroundecanoic acid			25.6	23.1		ng/L		90	60 - 141		
6:2 Fluorotelomer sulfonic acid			24.3	20.5		ng/L		84	28 - 173		
8:2 Fluorotelomer sulfonic acid			24.5	20.4		ng/L		83	55 - 138		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*94*		*10 - 200*
M2-8:2 FTS	*115*		*33 - 200*
M2-6:2 FTS	*110*		*17 - 200*
13C5 PFHxA	*96*		*24 - 179*
13C4 PFHpA	*96*		*31 - 182*
13C8 PFOA	*99*		*48 - 162*
13C9 PFNA	*113*		*51 - 167*
13C6 PFDA	*98*		*49 - 163*
13C7 PFUnA	*103*		*34 - 174*
13C2-PFDoDA	*95*		*17 - 176*
13C2 PFTeDA	*95*		*10 - 179*
13C3 PFBS	*102*		*16 - 200*
13C3 PFHxS	*100*		*28 - 188*
13C8 PFOS	*107*		*51 - 159*
d3-NMeFOSAA	*112*		*31 - 174*
d5-NEtFOSAA	*116*		*29 - 195*
13C8 FOSA	*101*		*10 - 168*
13C4 PFBA	*103*		*42 - 165*
13C5 PFPeA	*104*		*38 - 187*
d7-N-MeFOSE-M	*74*		*10 - 178*
d3-NMePFOSA	*46*		*10 - 155*
d9-N-EtFOSE-M	*75*		*10 - 177*
d5-NEtPFOSA	*50*		*10 - 159*
13C3 HFPO-DA	*107*		*17 - 185*

Lab Sample ID: LCSD 410-328798/4-A
Matrix: Water
Analysis Batch: 329334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328798

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	22.0		ng/L		86	58 - 139	2	30
Perfluoroheptanoic acid			25.6	23.3		ng/L		91	59 - 145	4	30
Perfluorooctanoic acid			25.6	23.3		ng/L		91	51 - 145	5	30
Perfluorononanoic acid			25.6	23.0		ng/L		90	61 - 139	0	30
Perfluorodecanoic acid			25.6	23.1		ng/L		90	56 - 138	2	30
Perfluorotridecanoic acid			25.6	24.1		ng/L		94	58 - 146	4	30
Perfluorotetradecanoic acid			25.6	22.3		ng/L		87	62 - 139	0	30
Perfluorobutanesulfonic acid			22.7	21.3		ng/L		94	53 - 138	5	30
Perfluorohexanesulfonic acid			23.3	20.9		ng/L		90	58 - 134	5	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-328798/4-A
Matrix: Water
Analysis Batch: 329334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328798

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid			23.7	20.4		ng/L		86	45 - 150	1	30
NEtFOSAA			25.6	22.0		ng/L		86	55 - 134	2	30
NMeFOSAA			25.6	23.3		ng/L		91	59 - 140	2	30
10:2 FTS			24.7	22.4		ng/L		91	50 - 146	9	30
Perfluoropentanesulfonic acid			24.0	22.9		ng/L		95	55 - 140	1	30
Perfluoroheptanesulfonic acid			24.4	20.0		ng/L		82	56 - 140	6	30
Perfluorononanesulfonic acid			24.6	21.7		ng/L		88	59 - 136	1	30
Perfluorodecanesulfonic acid			24.7	21.6		ng/L		88	55 - 137	3	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	21.0		ng/L		85	48 - 138	1	30
Perfluorooctanesulfonamide			25.6	21.5		ng/L		84	43 - 167	3	30
Perfluorohexadecanoic acid			25.6	20.1		ng/L		79	41 - 158	1	30
Perfluorooctadecanoic acid			25.6	19.6		ng/L		76	29 - 172	0	30
Perfluorobutanoic acid			25.6	19.5		ng/L		76	59 - 136	2	30
Perfluoropentanoic acid			25.6	21.6		ng/L		84	57 - 141	0	30
NMeFOSE			25.6	21.4		ng/L		84	55 - 144	3	30
NMeFOSA			25.6	23.6		ng/L		92	64 - 143	9	30
NEtFOSE			25.6	22.3		ng/L		87	60 - 136	4	30
NEtFOSA			25.6	23.1		ng/L		90	61 - 134	0	30
HFPODA			25.6	18.4		ng/L		72	50 - 135	6	30
DONA			24.2	21.1		ng/L		87	55 - 143	0	30
9Cl-PF3ONS			23.8	21.4		ng/L		90	59 - 135	6	30
11Cl-PF3OUdS			23.8	20.9		ng/L		88	53 - 139	3	30
Perfluorododecanoic acid			25.6	24.2		ng/L		94	59 - 143	4	30
4:2 Fluorotelomer sulfonic acid			23.9	21.1		ng/L		88	55 - 139	1	30
Perfluoroundecanoic acid			25.6	21.9		ng/L		86	60 - 141	5	30
6:2 Fluorotelomer sulfonic acid			24.3	20.8		ng/L		86	28 - 173	2	30
8:2 Fluorotelomer sulfonic acid			24.5	22.2		ng/L		90	55 - 138	8	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*97*		*10 - 200*
M2-8:2 FTS	*116*		*33 - 200*
M2-6:2 FTS	*112*		*17 - 200*
13C5 PFHxA	*99*		*24 - 179*
13C4 PFHpA	*98*		*31 - 182*
13C8 PFOA	*99*		*48 - 162*
13C9 PFNA	*112*		*51 - 167*
13C6 PFDA	*109*		*49 - 163*
13C7 PFUnA	*119*		*34 - 174*
13C2-PFDoDA	*103*		*17 - 176*
13C2 PFTeDA	*105*		*10 - 179*
13C3 PFBS	*98*		*16 - 200*
13C3 PFHxS	*96*		*28 - 188*
13C8 PFOS	*105*		*51 - 159*
d3-NMeFOSAA	*120*		*31 - 174*
d5-NEtFOSAA	*132*		*29 - 195*
13C8 FOSA	*114*		*10 - 168*
13C4 PFBA	*104*		*42 - 165*
13C5 PFPeA	*104*		*38 - 187*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-328798/4-A
Matrix: Water
Analysis Batch: 329334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328798

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d7-N-MeFOSE-M	82		10 - 178
d3-NMePFOSA	54		10 - 155
d9-N-EtFOSE-M	81		10 - 177
d5-NEtPFOSA	54		10 - 159
13C3 HFPO-DA	112		17 - 185

Lab Sample ID: MB 410-329281/1-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorononanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
NEtFOSAA	<3.0		3.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
NMeFOSAA	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
10:2 FTS	<5.0		5.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
NMeFOSE	<3.0		3.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
NMeFOSA	<3.0		3.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
NEtFOSE	<3.0		3.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
NEtFOSA	<5.0		5.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
HFPODA	<3.0		3.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
DONA	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
9Cl-PF3ONS	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		12/21/22 07:41	12/27/22 22:33	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		12/21/22 07:41	12/27/22 22:33	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	116		10 - 200	12/21/22 07:41	12/27/22 22:33	1
M2-8:2 FTS	128		33 - 200	12/21/22 07:41	12/27/22 22:33	1
M2-6:2 FTS	112		17 - 200	12/21/22 07:41	12/27/22 22:33	1
13C5 PFHxA	112		24 - 179	12/21/22 07:41	12/27/22 22:33	1
13C4 PFHpA	105		31 - 182	12/21/22 07:41	12/27/22 22:33	1
13C8 PFOA	104		48 - 162	12/21/22 07:41	12/27/22 22:33	1
13C9 PFNA	115		51 - 167	12/21/22 07:41	12/27/22 22:33	1
13C6 PFDA	107		49 - 163	12/21/22 07:41	12/27/22 22:33	1
13C7 PFUnA	115		34 - 174	12/21/22 07:41	12/27/22 22:33	1
13C2-PFDoDA	127		17 - 176	12/21/22 07:41	12/27/22 22:33	1
13C2 PFTeDA	145		10 - 179	12/21/22 07:41	12/27/22 22:33	1
13C3 PFBS	116		16 - 200	12/21/22 07:41	12/27/22 22:33	1
13C3 PFHxS	109		28 - 188	12/21/22 07:41	12/27/22 22:33	1
13C8 PFOS	115		51 - 159	12/21/22 07:41	12/27/22 22:33	1
d3-NMeFOSAA	123		31 - 174	12/21/22 07:41	12/27/22 22:33	1
d5-NEtFOSAA	144		29 - 195	12/21/22 07:41	12/27/22 22:33	1
13C8 FOSA	103		10 - 168	12/21/22 07:41	12/27/22 22:33	1
13C4 PFBA	110		42 - 165	12/21/22 07:41	12/27/22 22:33	1
13C5 PFPeA	115		38 - 187	12/21/22 07:41	12/27/22 22:33	1
d7-N-MeFOSE-M	115		10 - 178	12/21/22 07:41	12/27/22 22:33	1
d3-NMePFOSA	63		10 - 155	12/21/22 07:41	12/27/22 22:33	1
d9-N-EtFOSE-M	130		10 - 177	12/21/22 07:41	12/27/22 22:33	1
d5-NEtPFOSA	74		10 - 159	12/21/22 07:41	12/27/22 22:33	1
13C3 HFPO-DA	113		17 - 185	12/21/22 07:41	12/27/22 22:33	1

Lab Sample ID: LCS 410-329281/3-A
Matrix: Water
Analysis Batch: 331216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	25.2		ng/L		99	58 - 139
Perfluoroheptanoic acid	25.6	27.2		ng/L		106	59 - 145
Perfluorooctanoic acid	25.6	26.4		ng/L		103	51 - 145
Perfluorononanoic acid	25.6	26.6		ng/L		104	61 - 139
Perfluorodecanoic acid	25.6	27.4		ng/L		107	56 - 138
Perfluorotridecanoic acid	25.6	26.6		ng/L		104	58 - 146
Perfluorotetradecanoic acid	25.6	27.9		ng/L		109	62 - 139
Perfluorobutanesulfonic acid	22.7	23.9		ng/L		105	53 - 138
Perfluorohexanesulfonic acid	23.3	23.8		ng/L		102	58 - 134
Perfluorooctanesulfonic acid	23.7	24.3		ng/L		103	45 - 150
NEtFOSAA	25.6	27.0		ng/L		105	55 - 134
NMeFOSAA	25.6	23.4		ng/L		92	59 - 140
10:2 FTS	24.7	25.1		ng/L		102	50 - 146
Perfluoropentanesulfonic acid	24.0	24.3		ng/L		101	55 - 140
Perfluoroheptanesulfonic acid	24.4	22.7		ng/L		93	56 - 140
Perfluorononanesulfonic acid	24.6	23.6		ng/L		96	59 - 136
Perfluorodecanesulfonic acid	24.7	23.9		ng/L		97	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	25.1		ng/L		101	48 - 138
Perfluorooctanesulfonamide	25.6	27.7		ng/L		108	43 - 167
Perfluorohexadecanoic acid	25.6	24.0		ng/L		94	41 - 158
Perfluorooctadecanoic acid	25.6	23.6		ng/L		92	29 - 172

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-329281/3-A
Matrix: Water
Analysis Batch: 331216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	25.6	23.2		ng/L		90	59 - 136
Perfluoropentanoic acid	25.6	24.3		ng/L		95	57 - 141
NMeFOSE	25.6	24.8		ng/L		97	55 - 144
NMeFOSA	25.6	28.3		ng/L		111	64 - 143
NEtFOSE	25.6	25.7		ng/L		101	60 - 136
NEtFOSA	25.6	27.7		ng/L		108	61 - 134
HFPODA	25.6	26.8		ng/L		105	50 - 135
DONA	24.2	25.0		ng/L		103	55 - 143
9Cl-PF3ONS	23.8	24.5		ng/L		103	59 - 135
11Cl-PF3OUdS	23.8	25.0		ng/L		105	53 - 139
Perfluorododecanoic acid	25.6	26.9		ng/L		105	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	25.1		ng/L		105	55 - 139
Perfluoroundecanoic acid	25.6	27.5		ng/L		108	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	21.6		ng/L		89	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	23.3		ng/L		95	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*107*		*10 - 200*
M2-8:2 FTS	*112*		*33 - 200*
M2-6:2 FTS	*119*		*17 - 200*
13C5 PFHxA	*103*		*24 - 179*
13C4 PFHpA	*101*		*31 - 182*
13C8 PFOA	*99*		*48 - 162*
13C9 PFNA	*119*		*51 - 167*
13C6 PFDA	*101*		*49 - 163*
13C7 PFUnA	*98*		*34 - 174*
13C2-PFDoDA	*101*		*17 - 176*
13C2 PFTeDA	*97*		*10 - 179*
13C3 PFBS	*110*		*16 - 200*
13C3 PFHxS	*102*		*28 - 188*
13C8 PFOS	*116*		*51 - 159*
d3-NMeFOSAA	*101*		*31 - 174*
d5-NEtFOSAA	*94*		*29 - 195*
13C8 FOSA	*91*		*10 - 168*
13C4 PFBA	*112*		*42 - 165*
13C5 PFPeA	*116*		*38 - 187*
d7-N-MeFOSE-M	*84*		*10 - 178*
d3-NMePFOSA	*54*		*10 - 155*
d9-N-EtFOSE-M	*80*		*10 - 177*
d5-NEtPFOSA	*56*		*10 - 159*
13C3 HFPO-DA	*101*		*17 - 185*

Lab Sample ID: LCSD 410-329281/4-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329281

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.6	25.0		ng/L		98	58 - 139	5	30
Perfluoroheptanoic acid	25.6	26.0		ng/L		102	59 - 145	3	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-329281/4-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329281

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid			25.6	26.4		ng/L		103	51 - 145	1	30
Perfluorononanoic acid			25.6	25.7		ng/L		100	61 - 139	3	30
Perfluorodecanoic acid			25.6	27.6		ng/L		108	56 - 138	6	30
Perfluorotridecanoic acid			25.6	28.9		ng/L		113	58 - 146	1	30
Perfluorotetradecanoic acid			25.6	27.4		ng/L		107	62 - 139	5	30
Perfluorobutanesulfonic acid			22.7	24.9		ng/L		110	53 - 138	7	30
Perfluorohexanesulfonic acid			23.3	21.7		ng/L		93	58 - 134	7	30
Perfluorooctanesulfonic acid			23.7	23.7		ng/L		100	45 - 150	2	30
NEtFOSAA			25.6	24.6		ng/L		96	55 - 134	4	30
NMeFOSAA			25.6	27.1		ng/L		106	59 - 140	8	30
10:2 FTS			24.7	35.1		ng/L		142	50 - 146	6	30
Perfluoropentanesulfonic acid			24.0	25.8		ng/L		107	55 - 140	6	30
Perfluoroheptanesulfonic acid			24.4	21.1		ng/L		87	56 - 140	5	30
Perfluorononanesulfonic acid			24.6	23.1		ng/L		94	59 - 136	3	30
Perfluorodecanesulfonic acid			24.7	24.0		ng/L		97	55 - 137	1	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	24.1		ng/L		97	48 - 138	8	30
Perfluorooctanesulfonamide			25.6	28.0		ng/L		109	43 - 167	4	30
Perfluorohexadecanoic acid			25.6	23.1		ng/L		90	41 - 158	12	30
Perfluorooctadecanoic acid			25.6	23.6		ng/L		92	29 - 172	11	30
Perfluorobutanoic acid			25.6	22.9		ng/L		90	59 - 136	0	30
Perfluoropentanoic acid			25.6	23.4		ng/L		91	57 - 141	5	30
NMeFOSE			25.6	25.8		ng/L		101	55 - 144	6	30
NMeFOSA			25.6	29.8		ng/L		116	64 - 143	2	30
NEtFOSE			25.6	25.8		ng/L		101	60 - 136	0	30
NEtFOSA			25.6	27.2		ng/L		106	61 - 134	1	30
HFPODA			25.6	25.3		ng/L		99	50 - 135	6	30
DONA			24.2	24.3		ng/L		101	55 - 143	5	30
9Cl-PF3ONS			23.8	24.1		ng/L		101	59 - 135	5	30
11Cl-PF3OUdS			23.8	23.0		ng/L		97	53 - 139	5	30
Perfluorododecanoic acid			25.6	25.9		ng/L		101	59 - 143	2	30
4:2 Fluorotelomer sulfonic acid			23.9	25.2		ng/L		105	55 - 139	4	30
Perfluoroundecanoic acid			25.6	25.6		ng/L		100	60 - 141	3	30
6:2 Fluorotelomer sulfonic acid			24.3	23.5		ng/L		97	28 - 173	3	30
8:2 Fluorotelomer sulfonic acid			24.5	22.5		ng/L		92	55 - 138	13	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*88*		*10 - 200*
M2-8:2 FTS	*96*		*33 - 200*
M2-6:2 FTS	*85*		*17 - 200*
13C5 PFHxA	*94*		*24 - 179*
13C4 PFHpA	*90*		*31 - 182*
13C8 PFOA	*89*		*48 - 162*
13C9 PFNA	*91*		*51 - 167*
13C6 PFDA	*85*		*49 - 163*
13C7 PFUnA	*87*		*34 - 174*
13C2-PFDoDA	*93*		*17 - 176*
13C2 PFTeDA	*111*		*10 - 179*
13C3 PFBS	*85*		*16 - 200*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-329281/4-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329281

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C3 PFHxS	97		28 - 188
13C8 PFOS	94		51 - 159
d3-NMeFOSAA	91		31 - 174
d5-NEtFOSAA	95		29 - 195
13C8 FOSA	84		10 - 168
13C4 PFBA	87		42 - 165
13C5 PFPeA	95		38 - 187
d7-N-MeFOSE-M	85		10 - 178
d3-NMePFOSA	60		10 - 155
d9-N-EtFOSE-M	89		10 - 177
d5-NEtPFOSA	68		10 - 159
13C3 HFPO-DA	94		17 - 185

Lab Sample ID: MB 410-329512/1-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorononanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
NEtFOSAA	<3.0		3.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
NMeFOSAA	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
10:2 FTS	<5.0		5.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
NMeFOSE	<3.0		3.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
NMeFOSA	<3.0		3.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
NEtFOSE	<3.0		3.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
NEtFOSA	<5.0		5.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
HFPODA	<3.0		3.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
DONA	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
9Cl-PF3ONS	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-329512/1-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		12/21/22 15:18	12/27/22 16:16	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		12/21/22 15:18	12/27/22 16:16	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*97*		*10 - 200*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
M2-8:2 FTS	*89*		*33 - 200*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
M2-6:2 FTS	*96*		*17 - 200*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C5 PFHxA	*95*		*24 - 179*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C4 PFHpA	*100*		*31 - 182*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C8 PFOA	*95*		*48 - 162*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C9 PFNA	*108*		*51 - 167*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C6 PFDA	*97*		*49 - 163*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C7 PFUnA	*95*		*34 - 174*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C2-PFDoDA	*96*		*17 - 176*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C2 PFTeDA	*98*		*10 - 179*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C3 PFBS	*94*		*16 - 200*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C3 PFHxS	*98*		*28 - 188*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C8 PFOS	*108*		*51 - 159*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
d3-NMeFOSAA	*101*		*31 - 174*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
d5-NEtFOSAA	*101*		*29 - 195*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C8 FOSA	*93*		*10 - 168*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C4 PFBA	*97*		*42 - 165*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C5 PFPeA	*101*		*38 - 187*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
d7-N-MeFOSE-M	*83*		*10 - 178*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
d3-NMePFOSA	*60*		*10 - 155*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
d9-N-EtFOSE-M	*81*		*10 - 177*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
d5-NEtPFOSA	*63*		*10 - 159*	*12/21/22 15:18*	*12/27/22 16:16*	*1*
13C3 HFPO-DA	*104*		*17 - 185*	*12/21/22 15:18*	*12/27/22 16:16*	*1*

Lab Sample ID: LCS 410-329512/2-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	25.1		ng/L		98	58 - 139
Perfluoroheptanoic acid	25.6	25.4		ng/L		99	59 - 145
Perfluorooctanoic acid	25.6	26.1		ng/L		102	51 - 145
Perfluorononanoic acid	25.6	26.8		ng/L		105	61 - 139
Perfluorodecanoic acid	25.6	25.6		ng/L		100	56 - 138
Perfluorotridecanoic acid	25.6	26.1		ng/L		102	58 - 146
Perfluorotetradecanoic acid	25.6	23.3		ng/L		91	62 - 139
Perfluorobutanesulfonic acid	22.7	22.7		ng/L		100	53 - 138
Perfluorohexanesulfonic acid	23.3	22.4		ng/L		96	58 - 134
Perfluorooctanesulfonic acid	23.7	22.9		ng/L		97	45 - 150
NEtFOSAA	25.6	23.3		ng/L		91	55 - 134

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-329512/2-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.6	24.7		ng/L		96	59 - 140
10:2 FTS	24.7	25.5		ng/L		103	50 - 146
Perfluoropentanesulfonic acid	24.0	23.4		ng/L		97	55 - 140
Perfluoroheptanesulfonic acid	24.4	21.7		ng/L		89	56 - 140
Perfluorononanesulfonic acid	24.6	22.2		ng/L		90	59 - 136
Perfluorodecanesulfonic acid	24.7	22.8		ng/L		93	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	22.7		ng/L		91	48 - 138
Perfluorooctanesulfonamide	25.6	24.8		ng/L		97	43 - 167
Perfluorohexadecanoic acid	25.6	18.6		ng/L		72	41 - 158
Perfluorooctadecanoic acid	25.6	19.5		ng/L		76	29 - 172
Perfluorobutanoic acid	25.6	22.5		ng/L		88	59 - 136
Perfluoropentanoic acid	25.6	23.2		ng/L		91	57 - 141
NMeFOSE	25.6	24.6		ng/L		96	55 - 144
NMeFOSA	25.6	29.7		ng/L		116	64 - 143
NEtFOSE	25.6	24.0		ng/L		94	60 - 136
NEtFOSA	25.6	25.6		ng/L		100	61 - 134
HFPODA	25.6	23.9		ng/L		93	50 - 135
DONA	24.2	23.5		ng/L		97	55 - 143
9Cl-PF3ONS	23.8	23.5		ng/L		99	59 - 135
11Cl-PF3OUdS	23.8	22.4		ng/L		94	53 - 139
Perfluorododecanoic acid	25.6	24.0		ng/L		94	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	24.5		ng/L		103	55 - 139
Perfluoroundecanoic acid	25.6	23.4		ng/L		92	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	24.4		ng/L		100	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	26.0		ng/L		106	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*99*		*10 - 200*
M2-8:2 FTS	*90*		*33 - 200*
M2-6:2 FTS	*91*		*17 - 200*
13C5 PFHxA	*101*		*24 - 179*
13C4 PFHpA	*101*		*31 - 182*
13C8 PFOA	*99*		*48 - 162*
13C9 PFNA	*101*		*51 - 167*
13C6 PFDA	*100*		*49 - 163*
13C7 PFUnA	*95*		*34 - 174*
13C2-PFDoDA	*98*		*17 - 176*
13C2 PFTeDA	*113*		*10 - 179*
13C3 PFBS	*101*		*16 - 200*
13C3 PFHxS	*102*		*28 - 188*
13C8 PFOS	*105*		*51 - 159*
d3-NMeFOSAA	*103*		*31 - 174*
d5-NEtFOSAA	*105*		*29 - 195*
13C8 FOSA	*97*		*10 - 168*
13C4 PFBA	*103*		*42 - 165*
13C5 PFPeA	*103*		*38 - 187*
d7-N-MeFOSE-M	*59*		*10 - 178*
d3-NMePFOSA	*48*		*10 - 155*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-329512/2-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329512

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	56		10 - 177
d5-NEtPFOSA	47		10 - 159
13C3 HFPO-DA	113		17 - 185

Lab Sample ID: LCSD 410-329512/3-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329512

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	24.4		ng/L		95	58 - 139	3	30
Perfluoroheptanoic acid			25.6	26.1		ng/L		102	59 - 145	3	30
Perfluorooctanoic acid			25.6	25.5		ng/L		100	51 - 145	2	30
Perfluorononanoic acid			25.6	25.2		ng/L		98	61 - 139	6	30
Perfluorodecanoic acid			25.6	25.3		ng/L		99	56 - 138	1	30
Perfluorotridecanoic acid			25.6	24.9		ng/L		97	58 - 146	5	30
Perfluorotetradecanoic acid			25.6	25.1		ng/L		98	62 - 139	7	30
Perfluorobutanesulfonic acid			22.7	23.3		ng/L		103	53 - 138	3	30
Perfluorohexanesulfonic acid			23.3	22.5		ng/L		96	58 - 134	0	30
Perfluorooctanesulfonic acid			23.7	22.2		ng/L		94	45 - 150	3	30
NEtFOSAA			25.6	23.6		ng/L		92	55 - 134	2	30
NMeFOSAA			25.6	23.4		ng/L		91	59 - 140	6	30
10:2 FTS			24.7	24.9		ng/L		101	50 - 146	2	30
Perfluoropentanesulfonic acid			24.0	23.9		ng/L		100	55 - 140	2	30
Perfluoroheptanesulfonic acid			24.4	21.8		ng/L		89	56 - 140	0	30
Perfluorononanesulfonic acid			24.6	21.1		ng/L		86	59 - 136	5	30
Perfluorodecanesulfonic acid			24.7	21.5		ng/L		87	55 - 137	6	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	21.6		ng/L		87	48 - 138	5	30
Perfluorooctanesulfonamide			25.6	26.3		ng/L		103	43 - 167	6	30
Perfluorohexadecanoic acid			25.6	21.3		ng/L		83	41 - 158	14	30
Perfluorooctadecanoic acid			25.6	22.5		ng/L		88	29 - 172	14	30
Perfluorobutanoic acid			25.6	21.9		ng/L		86	59 - 136	3	30
Perfluoropentanoic acid			25.6	23.3		ng/L		91	57 - 141	0	30
NMeFOSE			25.6	23.2		ng/L		91	55 - 144	6	30
NMeFOSA			25.6	28.4		ng/L		111	64 - 143	4	30
NEtFOSE			25.6	23.8		ng/L		93	60 - 136	1	30
NEtFOSA			25.6	27.2		ng/L		106	61 - 134	6	30
HFPODA			25.6	25.0		ng/L		98	50 - 135	4	30
DONA			24.2	25.1		ng/L		104	55 - 143	6	30
9Cl-PF3ONS			23.8	23.0		ng/L		97	59 - 135	2	30
11Cl-PF3OUdS			23.8	21.4		ng/L		90	53 - 139	5	30
Perfluorododecanoic acid			25.6	22.8		ng/L		89	59 - 143	5	30
4:2 Fluorotelomer sulfonic acid			23.9	24.0		ng/L		100	55 - 139	2	30
Perfluoroundecanoic acid			25.6	23.5		ng/L		92	60 - 141	0	30
6:2 Fluorotelomer sulfonic acid			24.3	20.7		ng/L		85	28 - 173	16	30
8:2 Fluorotelomer sulfonic acid			24.5	22.8		ng/L		93	55 - 138	13	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-4:2 FTS	97		10 - 200

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-329512/3-A
Matrix: Water
Analysis Batch: 330441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329512

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-8:2 FTS	95		33 - 200
M2-6:2 FTS	97		17 - 200
13C5 PFHxA	100		24 - 179
13C4 PFHpA	93		31 - 182
13C8 PFOA	93		48 - 162
13C9 PFNA	104		51 - 167
13C6 PFDA	95		49 - 163
13C7 PFUnA	92		34 - 174
13C2-PFDoDA	95		17 - 176
13C2 PFTeDA	97		10 - 179
13C3 PFBS	95		16 - 200
13C3 PFHxS	98		28 - 188
13C8 PFOS	108		51 - 159
d3-NMeFOSAA	103		31 - 174
d5-NEtFOSAA	99		29 - 195
13C8 FOSA	90		10 - 168
13C4 PFBA	101		42 - 165
13C5 PFPeA	105		38 - 187
d7-N-MeFOSE-M	82		10 - 178
d3-NMePFOSA	60		10 - 155
d9-N-EtFOSE-M	78		10 - 177
d5-NEtPFOSA	62		10 - 159
13C3 HFPO-DA	105		17 - 185

Lab Sample ID: MB 410-329705/1-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorononanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
NEtFOSAA	<3.0		3.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
NMeFOSAA	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
10:2 FTS	<5.0		5.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-329705/1-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
NMeFOSE	<3.0		3.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
NMeFOSA	<3.0		3.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
NEtFOSE	<3.0		3.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
NEtFOSA	<5.0		5.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
HFPODA	<3.0		3.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
DONA	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
9Cl-PF3ONS	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		12/22/22 07:52	12/29/22 21:40	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		12/22/22 07:52	12/29/22 21:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
M2-8:2 FTS	*117*		*33 - 200*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
M2-6:2 FTS	*112*		*17 - 200*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C5 PFHxA	*110*		*24 - 179*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C4 PFHpA	*108*		*31 - 182*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C8 PFOA	*107*		*48 - 162*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C9 PFNA	*124*		*51 - 167*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C6 PFDA	*103*		*49 - 163*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C7 PFUnA	*114*		*34 - 174*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C2-PFDoDA	*99*		*17 - 176*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C2 PFTeDA	*100*		*10 - 179*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C3 PFBS	*107*		*16 - 200*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C3 PFHxS	*110*		*28 - 188*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C8 PFOS	*117*		*51 - 159*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
d3-NMeFOSAA	*110*		*31 - 174*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
d5-NEtFOSAA	*132*		*29 - 195*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C8 FOSA	*109*		*10 - 168*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C4 PFBA	*111*		*42 - 165*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C5 PFPeA	*114*		*38 - 187*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
d7-N-MeFOSE-M	*65*		*10 - 178*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
d3-NMePFOSA	*57*		*10 - 155*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
d9-N-EtFOSE-M	*61*		*10 - 177*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
d5-NEtPFOSA	*57*		*10 - 159*	*12/22/22 07:52*	*12/29/22 21:40*	*1*
13C3 HFPO-DA	*118*		*17 - 185*	*12/22/22 07:52*	*12/29/22 21:40*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-329705/3-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	22.4		ng/L		87	58 - 139
Perfluoroheptanoic acid	25.6	22.3		ng/L		87	59 - 145
Perfluorooctanoic acid	25.6	23.9		ng/L		93	51 - 145
Perfluorononanoic acid	25.6	22.3		ng/L		87	61 - 139
Perfluorodecanoic acid	25.6	22.0		ng/L		86	56 - 138
Perfluorotridecanoic acid	25.6	23.7		ng/L		93	58 - 146
Perfluorotetradecanoic acid	25.6	22.0		ng/L		86	62 - 139
Perfluorobutanesulfonic acid	22.7	20.4		ng/L		90	53 - 138
Perfluorohexanesulfonic acid	23.3	19.5		ng/L		84	58 - 134
Perfluorooctanesulfonic acid	23.7	20.3		ng/L		86	45 - 150
NEtFOSAA	25.6	22.2		ng/L		87	55 - 134
NMeFOSAA	25.6	21.7		ng/L		85	59 - 140
10:2 FTS	24.7	21.1		ng/L		86	50 - 146
Perfluoropentanesulfonic acid	24.0	23.2		ng/L		97	55 - 140
Perfluoroheptanesulfonic acid	24.4	18.4		ng/L		76	56 - 140
Perfluorononanesulfonic acid	24.6	21.5		ng/L		88	59 - 136
Perfluorodecanesulfonic acid	24.7	20.6		ng/L		83	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	20.2		ng/L		82	48 - 138
Perfluorooctanesulfonamide	25.6	20.5		ng/L		80	43 - 167
Perfluorohexadecanoic acid	25.6	18.4		ng/L		72	41 - 158
Perfluorooctadecanoic acid	25.6	17.1		ng/L		67	29 - 172
Perfluorobutanoic acid	25.6	19.5		ng/L		76	59 - 136
Perfluoropentanoic acid	25.6	21.5		ng/L		84	57 - 141
NMeFOSE	25.6	20.9		ng/L		82	55 - 144
NMeFOSA	25.6	25.5		ng/L		100	64 - 143
NEtFOSE	25.6	21.0		ng/L		82	60 - 136
NEtFOSA	25.6	20.5		ng/L		80	61 - 134
HFPODA	25.6	18.5		ng/L		72	50 - 135
DONA	24.2	20.4		ng/L		84	55 - 143
9Cl-PF3ONS	23.8	20.6		ng/L		86	59 - 135
11Cl-PF3OUdS	23.8	20.8		ng/L		87	53 - 139
Perfluorododecanoic acid	25.6	22.6		ng/L		88	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	20.7		ng/L		87	55 - 139
Perfluoroundecanoic acid	25.6	21.8		ng/L		85	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	20.7		ng/L		85	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	21.3		ng/L		87	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*122*		*10 - 200*
M2-8:2 FTS	*123*		*33 - 200*
M2-6:2 FTS	*122*		*17 - 200*
13C5 PFHxA	*118*		*24 - 179*
13C4 PFHpA	*122*		*31 - 182*
13C8 PFOA	*116*		*48 - 162*
13C9 PFNA	*135*		*51 - 167*
13C6 PFDA	*126*		*49 - 163*
13C7 PFUnA	*127*		*34 - 174*
13C2-PFDoDA	*117*		*17 - 176*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-329705/3-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329705

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFTeDA	*114*		*10 - 179*
13C3 PFBS	*113*		*16 - 200*
13C3 PFHxS	*122*		*28 - 188*
13C8 PFOS	*125*		*51 - 159*
d3-NMeFOSAA	*139*		*31 - 174*
d5-NEtFOSAA	*146*		*29 - 195*
13C8 FOSA	*130*		*10 - 168*
13C4 PFBA	*123*		*42 - 165*
13C5 PFPeA	*121*		*38 - 187*
d7-N-MeFOSE-M	*69*		*10 - 178*
d3-NMePFOSA	*69*		*10 - 155*
d9-N-EtFOSE-M	*69*		*10 - 177*
d5-NEtPFOSA	*74*		*10 - 159*
13C3 HFPO-DA	*136*		*17 - 185*

Lab Sample ID: LCSD 410-329705/4-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329705

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	23.0		ng/L		90	58 - 139	3	30
Perfluoroheptanoic acid			25.6	22.9		ng/L		89	59 - 145	2	30
Perfluorooctanoic acid			25.6	22.7		ng/L		89	51 - 145	5	30
Perfluorononanoic acid			25.6	23.0		ng/L		90	61 - 139	3	30
Perfluorodecanoic acid			25.6	23.5		ng/L		92	56 - 138	6	30
Perfluorotridecanoic acid			25.6	22.4		ng/L		87	58 - 146	6	30
Perfluorotetradecanoic acid			25.6	21.7		ng/L		85	62 - 139	1	30
Perfluorobutanesulfonic acid			22.7	20.8		ng/L		92	53 - 138	2	30
Perfluorohexanesulfonic acid			23.3	20.2		ng/L		87	58 - 134	3	30
Perfluorooctanesulfonic acid			23.7	20.3		ng/L		86	45 - 150	0	30
NEtFOSAA			25.6	20.7		ng/L		81	55 - 134	7	30
NMeFOSAA			25.6	23.2		ng/L		91	59 - 140	7	30
10:2 FTS			24.7	20.4		ng/L		82	50 - 146	4	30
Perfluoropentanesulfonic acid			24.0	22.6		ng/L		94	55 - 140	3	30
Perfluoroheptanesulfonic acid			24.4	19.3		ng/L		79	56 - 140	5	30
Perfluorononanesulfonic acid			24.6	20.6		ng/L		84	59 - 136	4	30
Perfluorodecanesulfonic acid			24.7	20.7		ng/L		84	55 - 137	1	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	21.0		ng/L		85	48 - 138	4	30
Perfluorooctanesulfonamide			25.6	21.4		ng/L		84	43 - 167	4	30
Perfluorohexadecanoic acid			25.6	18.1		ng/L		71	41 - 158	1	30
Perfluorooctadecanoic acid			25.6	17.0		ng/L		66	29 - 172	1	30
Perfluorobutanoic acid			25.6	19.6		ng/L		77	59 - 136	0	30
Perfluoropentanoic acid			25.6	21.5		ng/L		84	57 - 141	0	30
NMeFOSE			25.6	22.5		ng/L		88	55 - 144	7	30
NMeFOSA			25.6	23.2		ng/L		90	64 - 143	10	30
NEtFOSE			25.6	21.1		ng/L		83	60 - 136	0	30
NEtFOSA			25.6	22.2		ng/L		87	61 - 134	8	30
HFPODA			25.6	16.8		ng/L		66	50 - 135	9	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-329705/4-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329705

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DONA			24.2	21.3		ng/L		88	55 - 143	4	30
9Cl-PF3ONS			23.8	20.6		ng/L		86	59 - 135	0	30
11Cl-PF3OUdS			23.8	21.3		ng/L		90	53 - 139	2	30
Perfluorododecanoic acid			25.6	21.3		ng/L		83	59 - 143	6	30
4:2 Fluorotelomer sulfonic acid			23.9	22.3		ng/L		93	55 - 139	7	30
Perfluoroundecanoic acid			25.6	23.0		ng/L		90	60 - 141	5	30
6:2 Fluorotelomer sulfonic acid			24.3	20.1		ng/L		83	28 - 173	3	30
8:2 Fluorotelomer sulfonic acid			24.5	20.2		ng/L		82	55 - 138	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*120*		*10 - 200*
M2-8:2 FTS	*141*		*33 - 200*
M2-6:2 FTS	*142*		*17 - 200*
13C5 PFHxA	*129*		*24 - 179*
13C4 PFHpA	*130*		*31 - 182*
13C8 PFOA	*130*		*48 - 162*
13C9 PFNA	*145*		*51 - 167*
13C6 PFDA	*132*		*49 - 163*
13C7 PFUnA	*137*		*34 - 174*
13C2-PFDoDA	*128*		*17 - 176*
13C2 PFTeDA	*127*		*10 - 179*
13C3 PFBS	*131*		*16 - 200*
13C3 PFHxS	*134*		*28 - 188*
13C8 PFOS	*140*		*51 - 159*
d3-NMeFOSAA	*145*		*31 - 174*
d5-NEtFOSAA	*165*		*29 - 195*
13C8 FOSA	*142*		*10 - 168*
13C4 PFBA	*139*		*42 - 165*
13C5 PFPeA	*141*		*38 - 187*
d7-N-MeFOSE-M	*123*		*10 - 178*
d3-NMePFOSA	*80*		*10 - 155*
d9-N-EtFOSE-M	*125*		*10 - 177*
d5-NEtPFOSA	*85*		*10 - 159*
13C3 HFPO-DA	*162*		*17 - 185*

Lab Sample ID: MB 410-329831/1-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorononanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-329831/1-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NEtFOSAA	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NMeFOSAA	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
10:2 FTS	<5.0		5.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NMeFOSE	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NMeFOSA	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NEtFOSE	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
NEtFOSA	<5.0		5.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
HFPODA	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
DONA	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
9Cl-PF3ONS	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		12/22/22 10:38	12/28/22 03:40	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		12/22/22 10:38	12/28/22 03:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*123*		*10 - 200*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
M2-8:2 FTS	*144*		*33 - 200*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
M2-6:2 FTS	*143*		*17 - 200*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C5 PFHxA	*134*		*24 - 179*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C4 PFHpA	*134*		*31 - 182*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C8 PFOA	*132*		*48 - 162*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C9 PFNA	*143*		*51 - 167*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C6 PFDA	*129*		*49 - 163*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C7 PFUnA	*135*		*34 - 174*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C2-PFDoDA	*126*		*17 - 176*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C2 PFTeDA	*122*		*10 - 179*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C3 PFBS	*133*		*16 - 200*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C3 PFHxS	*137*		*28 - 188*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C8 PFOS	*138*		*51 - 159*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
d3-NMeFOSAA	*144*		*31 - 174*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
d5-NEtFOSAA	*153*		*29 - 195*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C8 FOSA	*136*		*10 - 168*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C4 PFBA	*133*		*42 - 165*	*12/22/22 10:38*	*12/28/22 03:40*	*1*
13C5 PFPeA	*134*		*38 - 187*	*12/22/22 10:38*	*12/28/22 03:40*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-329831/1-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329831

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	113		10 - 178	12/22/22 10:38	12/28/22 03:40	1
d3-NMePFOSA	84		10 - 155	12/22/22 10:38	12/28/22 03:40	1
d9-N-EtFOSE-M	120		10 - 177	12/22/22 10:38	12/28/22 03:40	1
d5-NEtPFOSA	90		10 - 159	12/22/22 10:38	12/28/22 03:40	1
13C3 HFPO-DA	143		17 - 185	12/22/22 10:38	12/28/22 03:40	1

Lab Sample ID: LCS 410-329831/2-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	22.1		ng/L		86	58 - 139
Perfluoroheptanoic acid	25.6	22.8		ng/L		89	59 - 145
Perfluorooctanoic acid	25.6	23.0		ng/L		90	51 - 145
Perfluorononanoic acid	25.6	21.7		ng/L		85	61 - 139
Perfluorodecanoic acid	25.6	24.0		ng/L		94	56 - 138
Perfluorotridecanoic acid	25.6	23.7		ng/L		92	58 - 146
Perfluorotetradecanoic acid	25.6	22.4		ng/L		88	62 - 139
Perfluorobutanesulfonic acid	22.7	20.7		ng/L		91	53 - 138
Perfluorohexanesulfonic acid	23.3	19.3		ng/L		83	58 - 134
Perfluorooctanesulfonic acid	23.7	20.0		ng/L		84	45 - 150
NEtFOSAA	25.6	21.9		ng/L		86	55 - 134
NMeFOSAA	25.6	22.6		ng/L		88	59 - 140
10:2 FTS	24.7	20.2		ng/L		82	50 - 146
Perfluoropentanesulfonic acid	24.0	22.6		ng/L		94	55 - 140
Perfluoroheptanesulfonic acid	24.4	19.5		ng/L		80	56 - 140
Perfluorononanesulfonic acid	24.6	21.4		ng/L		87	59 - 136
Perfluorodecanesulfonic acid	24.7	21.3		ng/L		86	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.0		ng/L		85	48 - 138
Perfluorooctanesulfonamide	25.6	22.4		ng/L		87	43 - 167
Perfluorohexadecanoic acid	25.6	19.7		ng/L		77	41 - 158
Perfluorooctadecanoic acid	25.6	19.0		ng/L		74	29 - 172
Perfluorobutanoic acid	25.6	20.4		ng/L		80	59 - 136
Perfluoropentanoic acid	25.6	21.8		ng/L		85	57 - 141
NMeFOSE	25.6	21.5		ng/L		84	55 - 144
NMeFOSA	25.6	23.5		ng/L		92	64 - 143
NEtFOSE	25.6	21.1		ng/L		82	60 - 136
NEtFOSA	25.6	22.9		ng/L		90	61 - 134
HFPODA	25.6	19.5		ng/L		76	50 - 135
DONA	24.2	20.6		ng/L		85	55 - 143
9Cl-PF3ONS	23.8	20.9		ng/L		88	59 - 135
11Cl-PF3OUdS	23.8	20.6		ng/L		86	53 - 139
Perfluorododecanoic acid	25.6	22.9		ng/L		89	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	21.4		ng/L		89	55 - 139
Perfluoroundecanoic acid	25.6	22.7		ng/L		89	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	20.9		ng/L		86	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	19.9		ng/L		81	55 - 138

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	110		10 - 200
M2-8:2 FTS	133		33 - 200
M2-6:2 FTS	119		17 - 200
13C5 PFHxA	117		24 - 179
13C4 PFHpA	116		31 - 182
13C8 PFOA	117		48 - 162
13C9 PFNA	136		51 - 167
13C6 PFDA	118		49 - 163
13C7 PFUnA	126		34 - 174
13C2-PFDoDA	122		17 - 176
13C2 PFTeDA	116		10 - 179
13C3 PFBS	121		16 - 200
13C3 PFHxS	122		28 - 188
13C8 PFOS	129		51 - 159
d3-NMeFOSAA	141		31 - 174
d5-NEtFOSAA	152		29 - 195
13C8 FOSA	125		10 - 168
13C4 PFBA	126		42 - 165
13C5 PFPeA	125		38 - 187
d7-N-MeFOSE-M	97		10 - 178
d3-NMePFOSA	57		10 - 155
d9-N-EtFOSE-M	98		10 - 177
d5-NEtPFOSA	59		10 - 159
13C3 HFPO-DA	123		17 - 185

Lab Sample ID: LCSD 410-329831/3-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329831

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.6	22.5		ng/L		88	58 - 139	2	30
Perfluoroheptanoic acid	25.6	23.1		ng/L		90	59 - 145	1	30
Perfluorooctanoic acid	25.6	22.9		ng/L		89	51 - 145	0	30
Perfluorononanoic acid	25.6	22.8		ng/L		89	61 - 139	5	30
Perfluorodecanoic acid	25.6	23.6		ng/L		92	56 - 138	2	30
Perfluorotridecanoic acid	25.6	23.7		ng/L		93	58 - 146	0	30
Perfluorotetradecanoic acid	25.6	22.7		ng/L		89	62 - 139	1	30
Perfluorobutanesulfonic acid	22.7	21.0		ng/L		93	53 - 138	1	30
Perfluorohexanesulfonic acid	23.3	19.8		ng/L		85	58 - 134	3	30
Perfluorooctanesulfonic acid	23.7	20.1		ng/L		85	45 - 150	1	30
NEtFOSAA	25.6	22.2		ng/L		87	55 - 134	1	30
NMeFOSAA	25.6	22.0		ng/L		86	59 - 140	3	30
10:2 FTS	24.7	21.2		ng/L		86	50 - 146	5	30
Perfluoropentanesulfonic acid	24.0	22.9		ng/L		95	55 - 140	1	30
Perfluoroheptanesulfonic acid	24.4	18.7		ng/L		77	56 - 140	4	30
Perfluorononanesulfonic acid	24.6	21.1		ng/L		86	59 - 136	1	30
Perfluorodecanesulfonic acid	24.7	21.3		ng/L		86	55 - 137	0	30
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.3		ng/L		86	48 - 138	2	30
Perfluorooctanesulfonamide	25.6	21.8		ng/L		85	43 - 167	3	30
Perfluorohexadecanoic acid	25.6	19.6		ng/L		77	41 - 158	1	30
Perfluorooctadecanoic acid	25.6	18.8		ng/L		73	29 - 172	1	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-329831/3-A
Matrix: Water
Analysis Batch: 330415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 329831

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid			25.6	20.1		ng/L		79	59 - 136	2	30
Perfluoropentanoic acid			25.6	22.3		ng/L		87	57 - 141	2	30
NMeFOSE			25.6	22.3		ng/L		87	55 - 144	4	30
NMeFOSA			25.6	24.4		ng/L		95	64 - 143	4	30
NEtFOSE			25.6	21.6		ng/L		84	60 - 136	2	30
NEtFOSA			25.6	22.4		ng/L		88	61 - 134	2	30
HFPODA			25.6	19.0		ng/L		74	50 - 135	3	30
DONA			24.2	20.8		ng/L		86	55 - 143	1	30
9Cl-PF3ONS			23.8	21.3		ng/L		89	59 - 135	2	30
11Cl-PF3OUdS			23.8	21.0		ng/L		88	53 - 139	2	30
Perfluorododecanoic acid			25.6	22.6		ng/L		88	59 - 143	1	30
4:2 Fluorotelomer sulfonic acid			23.9	21.7		ng/L		91	55 - 139	2	30
Perfluoroundecanoic acid			25.6	22.5		ng/L		88	60 - 141	1	30
6:2 Fluorotelomer sulfonic acid			24.3	19.8		ng/L		82	28 - 173	5	30
8:2 Fluorotelomer sulfonic acid			24.5	20.9		ng/L		85	55 - 138	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*98*		*10 - 200*
M2-8:2 FTS	*107*		*33 - 200*
M2-6:2 FTS	*111*		*17 - 200*
13C5 PFHxA	*103*		*24 - 179*
13C4 PFHpA	*102*		*31 - 182*
13C8 PFOA	*101*		*48 - 162*
13C9 PFNA	*117*		*51 - 167*
13C6 PFDA	*104*		*49 - 163*
13C7 PFUnA	*108*		*34 - 174*
13C2-PFDoDA	*102*		*17 - 176*
13C2 PFTeDA	*101*		*10 - 179*
13C3 PFBS	*102*		*16 - 200*
13C3 PFHxS	*104*		*28 - 188*
13C8 PFOS	*112*		*51 - 159*
d3-NMeFOSAA	*121*		*31 - 174*
d5-NEtFOSAA	*126*		*29 - 195*
13C8 FOSA	*104*		*10 - 168*
13C4 PFBA	*106*		*42 - 165*
13C5 PFPeA	*104*		*38 - 187*
d7-N-MeFOSE-M	*80*		*10 - 178*
d3-NMePFOSA	*49*		*10 - 155*
d9-N-EtFOSE-M	*82*		*10 - 177*
d5-NEtPFOSA	*51*		*10 - 159*
13C3 HFPO-DA	*106*		*17 - 185*

LCMS

Prep Batch: 328798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-1	EB-120622	Total/NA	Water	EPA 537 (mod)	
410-108758-2	EB-120622-2	Total/NA	Water	EPA 537 (mod)	
410-108758-3	EB-120622-3	Total/NA	Water	EPA 537 (mod)	
410-108758-4	ACK-14-12062022	Total/NA	Water	EPA 537 (mod)	
410-108758-5	ACK-14-12062022 DUP	Total/NA	Water	EPA 537 (mod)	
MB 410-328798/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-328798/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-328798/4-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 329281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-6	ACK-01-12072022	Total/NA	Water	EPA 537 (mod)	
410-108758-7	TACK-10-12072022	Total/NA	Water	EPA 537 (mod)	
MB 410-329281/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-329281/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-329281/4-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 329334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-1	EB-120622	Total/NA	Water	EPA 537 (Mod)	328798
410-108758-2	EB-120622-2	Total/NA	Water	EPA 537 (Mod)	328798
410-108758-3	EB-120622-3	Total/NA	Water	EPA 537 (Mod)	328798
410-108758-4	ACK-14-12062022	Total/NA	Water	EPA 537 (Mod)	328798
410-108758-5	ACK-14-12062022 DUP	Total/NA	Water	EPA 537 (Mod)	328798
MB 410-328798/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	328798
LCS 410-328798/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	328798
LCSD 410-328798/4-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	328798

Prep Batch: 329512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-15	TACK-04-12092022	Total/NA	Water	EPA 537 (mod)	
410-108758-16	FB-120922	Total/NA	Water	EPA 537 (mod)	
410-108758-17 - DL	TACK-03-12092022	Total/NA	Water	EPA 537 (mod)	
410-108758-17	TACK-03-12092022	Total/NA	Water	EPA 537 (mod)	
MB 410-329512/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-329512/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-329512/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 329705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-13	TACK-08-12092022	Total/NA	Water	EPA 537 (mod)	
410-108758-14	TACK-09-12092022	Total/NA	Water	EPA 537 (mod)	
MB 410-329705/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-329705/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-329705/4-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 329831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-8	TACK-01-12082022	Total/NA	Water	EPA 537 (mod)	
410-108758-9	TACK-02-12082022	Total/NA	Water	EPA 537 (mod)	
410-108758-10	TACK-05-12082022	Total/NA	Water	EPA 537 (mod)	

LCMS (Continued)

Prep Batch: 329831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-11	TACK-06-12082022	Total/NA	Water	EPA 537 (mod)	
410-108758-12	EB-12082022	Total/NA	Water	EPA 537 (mod)	
MB 410-329831/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-329831/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-329831/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 330134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-15	TACK-04-12092022	Total/NA	Water	EPA 537 (Mod)	329512
410-108758-16	FB-120922	Total/NA	Water	EPA 537 (Mod)	329512
410-108758-17	TACK-03-12092022	Total/NA	Water	EPA 537 (Mod)	329512

Analysis Batch: 330415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-8	TACK-01-12082022	Total/NA	Water	EPA 537 (Mod)	329831
410-108758-9	TACK-02-12082022	Total/NA	Water	EPA 537 (Mod)	329831
410-108758-10	TACK-05-12082022	Total/NA	Water	EPA 537 (Mod)	329831
410-108758-11	TACK-06-12082022	Total/NA	Water	EPA 537 (Mod)	329831
410-108758-12	EB-12082022	Total/NA	Water	EPA 537 (Mod)	329831
MB 410-329831/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	329831
LCS 410-329831/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	329831
LCSD 410-329831/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	329831

Analysis Batch: 330441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-6	ACK-01-12072022	Total/NA	Water	EPA 537 (Mod)	329281
410-108758-7	TACK-10-12072022	Total/NA	Water	EPA 537 (Mod)	329281
410-108758-17 - DL	TACK-03-12092022	Total/NA	Water	EPA 537 (Mod)	329512
MB 410-329281/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	329281
MB 410-329512/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	329512
LCS 410-329512/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	329512
LCSD 410-329281/4-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	329281
LCSD 410-329512/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	329512

Analysis Batch: 331216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-329281/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	329281

Analysis Batch: 331273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-108758-13	TACK-08-12092022	Total/NA	Water	EPA 537 (Mod)	329705
410-108758-14	TACK-09-12092022	Total/NA	Water	EPA 537 (Mod)	329705
MB 410-329705/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	329705
LCS 410-329705/3-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	329705
LCSD 410-329705/4-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	329705

Lab Chronicle

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

Job ID: 410-108758-1

Client Sample ID: EB-120622
Lab Sample ID: 410-108758-1
Date Collected: 12/06/22 13:55
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			328798	M4QQ	ELLE	12/20/22 07:34
Total/NA	Analysis	EPA 537 (Mod)		1	329334	I5JH	ELLE	12/22/22 09:32

Client Sample ID: EB-120622-2
Lab Sample ID: 410-108758-2
Date Collected: 12/06/22 14:00
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			328798	M4QQ	ELLE	12/20/22 07:34
Total/NA	Analysis	EPA 537 (Mod)		1	329334	I5JH	ELLE	12/22/22 09:44

Client Sample ID: EB-120622-3
Lab Sample ID: 410-108758-3
Date Collected: 12/06/22 14:15
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			328798	M4QQ	ELLE	12/20/22 07:34
Total/NA	Analysis	EPA 537 (Mod)		1	329334	I5JH	ELLE	12/22/22 09:55

Client Sample ID: ACK-14-12062022
Lab Sample ID: 410-108758-4
Date Collected: 12/06/22 15:00
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			328798	M4QQ	ELLE	12/20/22 07:34
Total/NA	Analysis	EPA 537 (Mod)		1	329334	I5JH	ELLE	12/22/22 10:06

Client Sample ID: ACK-14-12062022 DUP
Lab Sample ID: 410-108758-5
Date Collected: 12/06/22 15:00
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			328798	M4QQ	ELLE	12/20/22 07:34
Total/NA	Analysis	EPA 537 (Mod)		1	329334	I5JH	ELLE	12/22/22 10:17

Client Sample ID: ACK-01-12072022
Lab Sample ID: 410-108758-6
Date Collected: 12/07/22 11:30
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329281	RC3V	ELLE	12/21/22 07:41
Total/NA	Analysis	EPA 537 (Mod)		1	330441	QD9Y	ELLE	12/28/22 02:26

Lab Chronicle

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

Job ID: 410-108758-1

Client Sample ID: TACK-10-12072022
Lab Sample ID: 410-108758-7
Date Collected: 12/07/22 14:05
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329281	RC3V	ELLE	12/21/22 07:41
Total/NA	Analysis	EPA 537 (Mod)		1	330441	QD9Y	ELLE	12/28/22 02:37

Client Sample ID: TACK-01-12082022
Lab Sample ID: 410-108758-8
Date Collected: 12/08/22 09:50
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 05:08

Client Sample ID: TACK-02-12082022
Lab Sample ID: 410-108758-9
Date Collected: 12/08/22 12:00
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 05:20

Client Sample ID: TACK-05-12082022
Lab Sample ID: 410-108758-10
Date Collected: 12/08/22 15:50
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 05:31

Client Sample ID: TACK-06-12082022
Lab Sample ID: 410-108758-11
Date Collected: 12/08/22 14:05
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 05:42

Client Sample ID: EB-12082022
Lab Sample ID: 410-108758-12
Date Collected: 12/08/22 14:25
Matrix: Water
Date Received: 12/10/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329831	D5VP	ELLE	12/22/22 10:38
Total/NA	Analysis	EPA 537 (Mod)		1	330415	UUV6	ELLE	12/28/22 05:53

Lab Chronicle

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

Job ID: 410-108758-1

Client Sample ID: TACK-08-12092022
Date Collected: 12/09/22 08:45
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329705	M4QQ	ELLE	12/22/22 07:52
Total/NA	Analysis	EPA 537 (Mod)		1	331273	I5JH	ELLE	12/29/22 23:08

Client Sample ID: TACK-09-12092022
Date Collected: 12/09/22 10:15
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329705	M4QQ	ELLE	12/22/22 07:52
Total/NA	Analysis	EPA 537 (Mod)		1	331273	I5JH	ELLE	12/29/22 23:20

Client Sample ID: TACK-04-12092022
Date Collected: 12/09/22 11:35
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329512	JU9U	ELLE	12/21/22 15:18
Total/NA	Analysis	EPA 537 (Mod)		1	330134	QD9Y	ELLE	12/23/22 18:57

Client Sample ID: FB-120922
Date Collected: 12/09/22 11:55
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329512	JU9U	ELLE	12/21/22 15:18
Total/NA	Analysis	EPA 537 (Mod)		1	330134	QD9Y	ELLE	12/23/22 19:08

Client Sample ID: TACK-03-12092022
Date Collected: 12/09/22 14:10
Date Received: 12/10/22 10:00

Lab Sample ID: 410-108758-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329512	JU9U	ELLE	12/21/22 15:18
Total/NA	Analysis	EPA 537 (Mod)		1	330134	QD9Y	ELLE	12/23/22 19:19
Total/NA	Prep	EPA 537 (mod)	DL		329512	JU9U	ELLE	12/21/22 15:18
Total/NA	Analysis	EPA 537 (Mod)	DL	10	330441	QD9Y	ELLE	12/27/22 17:23

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-108758-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	06-30-23

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	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
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

Method Summary

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

Job ID: 410-108758-1

Method	Method Description	Protocol	Laboratory
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

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

Job ID: 410-108758-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-108758-1	EB-120622	Water	12/06/22 13:55	12/10/22 10:00
410-108758-2	EB-120622-2	Water	12/06/22 14:00	12/10/22 10:00
410-108758-3	EB-120622-3	Water	12/06/22 14:15	12/10/22 10:00
410-108758-4	ACK-14-12062022	Water	12/06/22 15:00	12/10/22 10:00
410-108758-5	ACK-14-12062022 DUP	Water	12/06/22 15:00	12/10/22 10:00
410-108758-6	ACK-01-12072022	Water	12/07/22 11:30	12/10/22 10:00
410-108758-7	TACK-10-12072022	Water	12/07/22 14:05	12/10/22 10:00
410-108758-8	TACK-01-12082022	Water	12/08/22 09:50	12/10/22 10:00
410-108758-9	TACK-02-12082022	Water	12/08/22 12:00	12/10/22 10:00
410-108758-10	TACK-05-12082022	Water	12/08/22 15:50	12/10/22 10:00
410-108758-11	TACK-06-12082022	Water	12/08/22 14:05	12/10/22 10:00
410-108758-12	EB-12082022	Water	12/08/22 14:25	12/10/22 10:00
410-108758-13	TACK-08-12092022	Water	12/09/22 08:45	12/10/22 10:00
410-108758-14	TACK-09-12092022	Water	12/09/22 10:15	12/10/22 10:00
410-108758-15	TACK-04-12092022	Water	12/09/22 11:35	12/10/22 10:00
410-108758-16	FB-120922	Water	12/09/22 11:55	12/10/22 10:00
410-108758-17	TACK-03-12092022	Water	12/09/22 14:10	12/10/22 10:00

Eurofi
2425 Nev
Lancaste
Phone (7

410-108758 Chain of Custody

Chain of Custody Record

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Client Ii

Client Contact: Mr. Matthew Kenney	Sampler: M. KENNEY / K. SANTARPIO	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-70765-12335.1
Company: Weston Solutions, Inc.	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.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: 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, Y - Trizma, Z - other (specify); Other:
State, Zip: NH, 03301	TAT Requested (days): STANDARD			
Phone: 860 712 2684	Compliance Project: Δ Yes Δ No			
Email: Matthew.Kenney@WestonSolutions.com	PO #: 0102971			
Project Name: Nantucket	WO #:			
Site: NANTUCKET	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)	PFAS 36	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EB-12062022	12/6/22	1355	G	W			X		WLM
EB-12062022-2		1400							0.75" BLADDER
EB-12062022-3		1415							1.5" BLADDER
ACK-14-12062022		1500		GW					
ACK-14-12062022 DUP		1500							
ACK-01-12072022	12/7/22	1130							
TACK-10-12072022		1405							
TACK-01-12082022	12/8/22	0950							
TACK-02-12082022		1200							
TACK-05-12082022		1550							
TACK-06-12082022		1405							

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: 12/9/22 1530	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: 12/10/22 1000	Company: ECET

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.6/4.5

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: MK/KS	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-70765-12335.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.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: 860 712 2684	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, Y - Trizma, 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)	PFAS 36	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
EB-12082022	12/8/22	1425	G	W			X		WLM
TACK-08-12092022	12/9/22	0845		GW					
TACK-09-12092022		1015							
TACK-04-12092022		1135							
FB-120922		1155		W					K. SANTARPIO
TACK-03-12092022		1410		GW					

MK

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]	12/9/22 1530	WESTON			
			[signature]	12/10/22 1400	ELLET

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.6/4.5

Ver: 01/16/2019

1/4/2023

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-108758-1

Login Number: 108758 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: McBeth, Jessica

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

DATA REVIEW CHECKLIST

SITE: Nantucket

LAB NUMBER: Eurofins Lancaster 410-109302-1

WESTON SAMPLE IDs: LB-04-12122022, LB-03-12122022, ACK-15-12122022, EB-12122022, ACK-10-12132022, TACK-07-12132022, ACK-09-12132022, ACK-11-12132022, FB-121322, EB-121322, ACK-08-12142022

Data Reviewed	Fraction				Comments
	PFAS 537.1 Mod				
Chain of Custody	√				
Percent Solids/RLs	√				ACK-10-12132022: PFHpA, PFPeA: 10x dilution
Preservation/Log Sheet	√				
Holding Time	√				
Field Blanks (Trip/Equip.)	√				
Instrument/Method Blanks (Soils/Solids)	NA				
Instrument/Method Blanks (Aqueous)	√				
MS/MSD (Soil/Solids)	NA				
MS/MSD (Aqueous)	NA				
LCS/LCSD	√				
ICAL/ICV/CCV	√				
Lab Duplicates	NA				
Field Duplicates	NA				
Isotope Dilution Recoveries	ACK-15-12122022 ACK-10-12132022 ACK-08-12142022				ACK-15-12122022: M-2 4:2 FTS high: qualify 4:2 FTS as estimated non-detect, UJ. ACK-10-12132022: M-2 4:2 FTS, 13C5-PFHxA, 13C4-PFHpA, 13C3-PFHxS, 13C3-HFPO-DA high: qualify associated detected analytes as estimated J, and non-detect analytes as estimated UJ. ACK-08-12142022: M-2 4:2 FTS high: qualify 4:2 FTS as estimated non-detect, UJ.

Note:
Data reviewed but not commented on is considered acceptable.
√ = Data Reviewed
NA = Not Applicable

Qualifiers Used: UJ, J

Data Reviewer Initials: RBE
Date: 1/25/2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Kanarek
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

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JOB DESCRIPTION

Nantucket

JOB NUMBER

410-109302-1

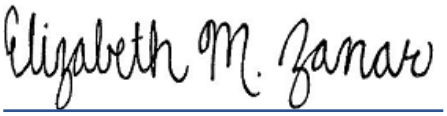
Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Elizabeth Zanar, Project Manager
Elizabeth.Zanar@et.eurofinsus.com
(717)556-7290

Compliance Statement

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

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

Job ID: 410-109302-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail

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 Environment Testing, LLC	Project #:	410-109302-1
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:** 01/10/2023

Job ID: 410-109302-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-109302-1

Receipt
The samples were received on 12/15/2022 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 0.5°C

PFAS
Method PFC_IDA: The recovery for M2-4:2 FTS in ACK-15-12122022 (410-109302-3) is above the QC acceptance limit. Since the recovery is high and the native analyte is not detected in the sample, the data are reported.

Method PFC_IDA: The sample injection standard peak areas in the following sample: ACK-10-12132022 (410-109302-5) 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 labeled isotope(s) 13C5 PFHxA, 13C4 PFHpA and 13C3 PFHxS in the following sample: ACK-10-12132022 (410-109302-5) is outside the QC acceptance limits due to the matrix of the sample.

Method PFC_IDA: The recovery for the labeled isotope(s) M2-4:2 FTS and 13C3 HFPO-DA in the following sample: ACK-10-12132022 (410-109302-5) 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: M2-4:2 FTS in the following sample: ACK-08-12142022 (410-109302-11) 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.

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: 410-109302-1

Client Sample ID: LB-04-12122022 — Lab Sample ID: 410-109302-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	8.2		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	7.7		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	11		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	2.5		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	4.7		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	9.7		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	17		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	5.8		4.5		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	6.1		1.8		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: LB-03-12122022 — Lab Sample ID: 410-109302-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	5.2		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	4.1		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	9.0		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	1.9		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	8.6		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	7.1		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	17		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	7.5		1.7		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: ACK-15-12122022 — Lab Sample ID: 410-109302-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	9.7		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	6.1		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	8.4		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	3.5		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	3.9		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	1.8		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	19		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	6.0		4.5		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	12		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	6.9		4.5		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: EB-12122022 — Lab Sample ID: 410-109302-4

No Detections.

Client Sample ID: ACK-10-12132022 — Lab Sample ID: 410-109302-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	300		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	160		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	140		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorodecanoic acid	12		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	2.1		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	37		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	72		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	100		4.3		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	100		4.3		ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	22		2.6		ng/L	1		EPA 537 (Mod)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ACK-10-12132022 (Continued) — Lab Sample ID: 410-109302-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid - DL	430		17		ng/L	10		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid - DL	450		17		ng/L	10		EPA 537 (Mod)	Total/NA

Client Sample ID: TACK-07-12132022 — Lab Sample ID: 410-109302-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid	2.5		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	4.6		4.5		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: ACK-09-12132022 — Lab Sample ID: 410-109302-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	7.4		1.8		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	5.2		1.8		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: ACK-11-12132022 — Lab Sample ID: 410-109302-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	9.8		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	3.1		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	6.7		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	4.6		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	35		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	46		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanesulfonic acid	2.1		1.7		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	5.7		4.2		ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	19		1.7		ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: FB-121322 — Lab Sample ID: 410-109302-9

No Detections.

Client Sample ID: EB-121322 — Lab Sample ID: 410-109302-10

No Detections.

Client Sample ID: ACK-08-12142022 — Lab Sample ID: 410-109302-11

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 410-109302-1

Client Sample ID: LB-04-12122022

Date Collected: 12/12/22 12:25
Date Received: 12/15/22 10:30

Lab Sample ID: 410-109302-1

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**8.2**		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluoroheptanoic acid	**7.7**		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorooctanoic acid	**11**		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorononanoic acid	**2.5**		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorobutanesulfonic acid	**4.7**		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorohexanesulfonic acid	**9.7**		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorooctanesulfonic acid	**17**		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
NEtFOSAA	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:34	1
NMeFOSAA	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
10:2 FTS	<4.5		4.5		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorobutanoic acid	**5.8**		4.5		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluoropentanoic acid	**6.1**		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
NMeFOSE	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:34	1
NMeFOSA	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:34	1
NEtFOSE	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:34	1
NEtFOSA	<4.5		4.5		ng/L		12/22/22 17:59	12/28/22 13:34	1
HFPODA	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:34	1
DONA	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:34	1
6:2 Fluorotelomer sulfonic acid	<4.5		4.5		ng/L		12/22/22 17:59	12/28/22 13:34	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*131*		*10 - 200*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
M2-8:2 FTS	*119*		*33 - 200*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
M2-6:2 FTS	*125*		*17 - 200*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C5 PFHxA	*124*		*24 - 179*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C4 PFHpA	*132*		*31 - 182*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C8 PFOA	*125*		*48 - 162*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C9 PFNA	*131*		*51 - 167*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C6 PFDA	*122*		*49 - 163*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C7 PFUnA	*121*		*34 - 174*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C2-PFDoDA	*119*		*17 - 176*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C2 PFTeDA	*124*		*10 - 179*	*12/22/22 17:59*	*12/28/22 13:34*	*1*

Client Sample ID: LB-04-12122022

Lab Sample ID: 410-109302-1

Date Collected: 12/12/22 12:25

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 PFBS	*150*		*16 - 200*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C3 PFHxS	*136*		*28 - 188*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C8 PFOS	*133*		*51 - 159*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
d3-NMeFOSAA	*135*		*31 - 174*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
d5-NEtFOSAA	*142*		*29 - 195*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C8 FOSA	*118*		*10 - 168*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C4 PFBA	*129*		*42 - 165*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C5 PFPeA	*142*		*38 - 187*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
d7-N-MeFOSE-M	*116*		*10 - 178*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
d3-NMePFOSA	*82*		*10 - 155*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
d9-N-EtFOSE-M	*118*		*10 - 177*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
d5-NEtPFOSA	*91*		*10 - 159*	*12/22/22 17:59*	*12/28/22 13:34*	*1*
13C3 HFPO-DA	*121*		*17 - 185*	*12/22/22 17:59*	*12/28/22 13:34*	*1*

Client Sample ID: LB-03-12122022

Lab Sample ID: 410-109302-2

Date Collected: 12/12/22 14:15

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**5.2**		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluoroheptanoic acid	**4.1**		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorooctanoic acid	**9.0**		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorononanoic acid	**1.9**		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorobutanesulfonic acid	**8.6**		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorohexanesulfonic acid	**7.1**		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorooctanesulfonic acid	**17**		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
NEtFOSAA	<2.5		2.5		ng/L		12/22/22 17:59	12/28/22 13:45	1
NMeFOSAA	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
10:2 FTS	<4.2		4.2		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorobutanoic acid	<4.2		4.2		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluoropentanoic acid	**7.5**		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
NMeFOSE	<2.5		2.5		ng/L		12/22/22 17:59	12/28/22 13:45	1
NMeFOSA	<2.5		2.5		ng/L		12/22/22 17:59	12/28/22 13:45	1
NEtFOSE	<2.5		2.5		ng/L		12/22/22 17:59	12/28/22 13:45	1
NEtFOSA	<4.2		4.2		ng/L		12/22/22 17:59	12/28/22 13:45	1
HFPODA	<2.5		2.5		ng/L		12/22/22 17:59	12/28/22 13:45	1
DONA	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1

Client Sample ID: LB-03-12122022

Lab Sample ID: 410-109302-2

Date Collected: 12/12/22 14:15

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/22/22 17:59	12/28/22 13:45	1
6:2 Fluorotelomer sulfonic acid	<4.2		4.2		ng/L		12/22/22 17:59	12/28/22 13:45	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		12/22/22 17:59	12/28/22 13:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*149*		*10 - 200*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
M2-8:2 FTS	*122*		*33 - 200*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
M2-6:2 FTS	*117*		*17 - 200*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C5 PFHxA	*115*		*24 - 179*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C4 PFHpA	*122*		*31 - 182*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C8 PFOA	*112*		*48 - 162*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C9 PFNA	*118*		*51 - 167*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C6 PFDA	*120*		*49 - 163*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C7 PFUnA	*117*		*34 - 174*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C2-PFDoDA	*119*		*17 - 176*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C2 PFTeDA	*137*		*10 - 179*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C3 PFBS	*142*		*16 - 200*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C3 PFHxS	*120*		*28 - 188*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C8 PFOS	*129*		*51 - 159*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
d3-NMeFOSAA	*124*		*31 - 174*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
d5-NEtFOSAA	*124*		*29 - 195*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C8 FOSA	*117*		*10 - 168*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C4 PFBA	*120*		*42 - 165*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C5 PFPeA	*138*		*38 - 187*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
d7-N-MeFOSE-M	*126*		*10 - 178*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
d3-NMePFOSA	*103*		*10 - 155*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
d9-N-EtFOSE-M	*118*		*10 - 177*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
d5-NEtPFOSA	*107*		*10 - 159*	*12/22/22 17:59*	*12/28/22 13:45*	*1*
13C3 HFPO-DA	*105*		*17 - 185*	*12/22/22 17:59*	*12/28/22 13:45*	*1*

Client Sample ID: ACK-15-12122022

Lab Sample ID: 410-109302-3

Date Collected: 12/12/22 15:45

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**9.7**		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluoroheptanoic acid	**6.1**		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorooctanoic acid	**8.4**		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorononanoic acid	**3.5**		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorobutanesulfonic acid	**3.9**		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorohexanesulfonic acid	**1.8**		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorooctanesulfonic acid	**19**		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
NEtFOSAA	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:56	1

Client Sample ID: ACK-15-12122022
Date Collected: 12/12/22 15:45
Date Received: 12/15/22 10:30

Lab Sample ID: 410-109302-3
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
10:2 FTS	<4.5		4.5		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorobutanoic acid	**6.0**		4.5		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluoropentanoic acid	**12**		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
NMeFOSE	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:56	1
NMeFOSA	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:56	1
NEtFOSE	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:56	1
NEtFOSA	<4.5		4.5		ng/L		12/22/22 17:59	12/28/22 13:56	1
HFPODA	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:56	1
DONA	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 13:56	1
6:2 Fluorotelomer sulfonic acid	**6.9**		4.5		ng/L		12/22/22 17:59	12/28/22 13:56	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 13:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*211*	*5+ cn	*10 - 200*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
M2-8:2 FTS	*122*		*33 - 200*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
M2-6:2 FTS	*122*		*17 - 200*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C5 PFHxA	*121*		*24 - 179*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C4 PFHpA	*120*		*31 - 182*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C8 PFOA	*114*		*48 - 162*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C9 PFNA	*122*		*51 - 167*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C6 PFDA	*116*		*49 - 163*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C7 PFUnA	*122*		*34 - 174*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C2-PFDoDA	*128*		*17 - 176*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C2 PFTeDA	*154*		*10 - 179*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C3 PFBS	*138*		*16 - 200*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C3 PFHxS	*121*		*28 - 188*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C8 PFOS	*128*		*51 - 159*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
d3-NMeFOSAA	*129*		*31 - 174*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
d5-NEtFOSAA	*135*		*29 - 195*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C8 FOSA	*114*		*10 - 168*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C4 PFBA	*115*		*42 - 165*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
13C5 PFPeA	*142*		*38 - 187*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
d7-N-MeFOSE-M	*112*		*10 - 178*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
d3-NMePFOSA	*67*		*10 - 155*	*12/22/22 17:59*	*12/28/22 13:56*	*1*
d9-N-EtFOSE-M	*110*		*10 - 177*	*12/22/22 17:59*	*12/28/22 13:56*	*1*

Client Sample ID: ACK-15-12122022

Lab Sample ID: 410-109302-3

Date Collected: 12/12/22 15:45

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	70		10 - 159	12/22/22 17:59	12/28/22 13:56	1
13C3 HFPO-DA	100		17 - 185	12/22/22 17:59	12/28/22 13:56	1

Client Sample ID: EB-12122022

Lab Sample ID: 410-109302-4

Date Collected: 12/12/22 16:10

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
NEtFOSAA	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 14:07	1
NMeFOSAA	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
10:2 FTS	<4.6		4.6		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorobutanoic acid	<4.6		4.6		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
NMeFOSE	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 14:07	1
NMeFOSA	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 14:07	1
NEtFOSE	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 14:07	1
NEtFOSA	<4.6		4.6		ng/L		12/22/22 17:59	12/28/22 14:07	1
HFPODA	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 14:07	1
DONA	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/22/22 17:59	12/28/22 14:07	1
6:2 Fluorotelomer sulfonic acid	<4.6		4.6		ng/L		12/22/22 17:59	12/28/22 14:07	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/22/22 17:59	12/28/22 14:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	118		10 - 200	12/22/22 17:59	12/28/22 14:07	1
M2-8:2 FTS	128		33 - 200	12/22/22 17:59	12/28/22 14:07	1
M2-6:2 FTS	122		17 - 200	12/22/22 17:59	12/28/22 14:07	1

Client Sample ID: EB-12122022

Lab Sample ID: 410-109302-4

Date Collected: 12/12/22 16:10

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	126		24 - 179	12/22/22 17:59	12/28/22 14:07	1
13C4 PFHpA	128		31 - 182	12/22/22 17:59	12/28/22 14:07	1
13C8 PFOA	117		48 - 162	12/22/22 17:59	12/28/22 14:07	1
13C9 PFNA	125		51 - 167	12/22/22 17:59	12/28/22 14:07	1
13C6 PFDA	127		49 - 163	12/22/22 17:59	12/28/22 14:07	1
13C7 PFUnA	131		34 - 174	12/22/22 17:59	12/28/22 14:07	1
13C2-PFDoDA	137		17 - 176	12/22/22 17:59	12/28/22 14:07	1
13C2 PFTeDA	161		10 - 179	12/22/22 17:59	12/28/22 14:07	1
13C3 PFBS	133		16 - 200	12/22/22 17:59	12/28/22 14:07	1
13C3 PFHxS	127		28 - 188	12/22/22 17:59	12/28/22 14:07	1
13C8 PFOS	131		51 - 159	12/22/22 17:59	12/28/22 14:07	1
d3-NMeFOSAA	142		31 - 174	12/22/22 17:59	12/28/22 14:07	1
d5-NEtFOSAA	150		29 - 195	12/22/22 17:59	12/28/22 14:07	1
13C8 FOSA	130		10 - 168	12/22/22 17:59	12/28/22 14:07	1
13C4 PFBA	121		42 - 165	12/22/22 17:59	12/28/22 14:07	1
13C5 PFPeA	131		38 - 187	12/22/22 17:59	12/28/22 14:07	1
d7-N-MeFOSE-M	82		10 - 178	12/22/22 17:59	12/28/22 14:07	1
d3-NMePFOSA	101		10 - 155	12/22/22 17:59	12/28/22 14:07	1
d9-N-EtFOSE-M	83		10 - 177	12/22/22 17:59	12/28/22 14:07	1
d5-NEtPFOSA	103		10 - 159	12/22/22 17:59	12/28/22 14:07	1
13C3 HFPO-DA	113		17 - 185	12/22/22 17:59	12/28/22 14:07	1

Client Sample ID: ACK-10-12132022

Lab Sample ID: 410-109302-5

Date Collected: 12/13/22 08:35

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**300**		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorooctanoic acid	**160**		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorononanoic acid	**140**		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorodecanoic acid	**12**		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorobutanesulfonic acid	**2.1**		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorohexanesulfonic acid	**37**		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorooctanesulfonic acid	**72**		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
NEtFOSAA	<2.6		2.6		ng/L		12/23/22 10:10	12/30/22 03:35	1
NMeFOSAA	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
10:2 FTS	<4.3		4.3		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorododecanesulfonic acid (PFDoS)	<2.6		2.6		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorohexadecanoic acid	<2.6		2.6		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorooctadecanoic acid	<2.6		2.6		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorobutanoic acid	**100**		4.3		ng/L		12/23/22 10:10	12/30/22 03:35	1

Client Sample ID: ACK-10-12132022
Date Collected: 12/13/22 08:35
Date Received: 12/15/22 10:30

Lab Sample ID: 410-109302-5
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	<2.6		2.6		ng/L		12/23/22 10:10	12/30/22 03:35	1
NMeFOSA	<2.6		2.6		ng/L		12/23/22 10:10	12/30/22 03:35	1
NEtFOSE	<2.6		2.6		ng/L		12/23/22 10:10	12/30/22 03:35	1
NEtFOSA	<4.3		4.3		ng/L		12/23/22 10:10	12/30/22 03:35	1
HFPODA	<2.6		2.6		ng/L		12/23/22 10:10	12/30/22 03:35	1
DONA	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 03:35	1
6:2 Fluorotelomer sulfonic acid	**100**		4.3		ng/L		12/23/22 10:10	12/30/22 03:35	1
8:2 Fluorotelomer sulfonic acid	**22**		2.6		ng/L		12/23/22 10:10	12/30/22 03:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*432*	**5+ cn*	*10 - 200*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
M2-8:2 FTS	*140*		*33 - 200*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
M2-6:2 FTS	*146*		*17 - 200*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C5 PFHxA	*236*	**5+ cn*	*24 - 179*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C4 PFHpA	*228*	**5+ cn*	*31 - 182*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C8 PFOA	*93*		*48 - 162*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C9 PFNA	*113*		*51 - 167*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C6 PFDA	*105*		*49 - 163*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C7 PFUnA	*114*		*34 - 174*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C2-PFDoDA	*104*		*17 - 176*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C2 PFTeDA	*97*		*10 - 179*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C3 PFBS	*137*		*16 - 200*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C3 PFHxS	*244*	**5+ cn*	*28 - 188*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C8 PFOS	*110*		*51 - 159*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
d3-NMeFOSAA	*132*		*31 - 174*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
d5-NEtFOSAA	*144*		*29 - 195*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C8 FOSA	*109*		*10 - 168*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C4 PFBA	*109*		*42 - 165*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C5 PFPeA	*117*		*38 - 187*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
d7-N-MeFOSE-M	*102*		*10 - 178*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
d3-NMePFOSA	*58*		*10 - 155*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
d9-N-EtFOSE-M	*98*		*10 - 177*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
d5-NEtPFOSA	*55*		*10 - 159*	*12/23/22 10:10*	*12/30/22 03:35*	*1*
13C3 HFPO-DA	*291*	**5+ cn*	*17 - 185*	*12/23/22 10:10*	*12/30/22 03:35*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**430**		17		ng/L		12/23/22 10:10	12/30/22 14:25	10
Perfluoropentanoic acid	**450**		17		ng/L		12/23/22 10:10	12/30/22 14:25	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFHpA	*127*	*cn*	*31 - 182*	*12/23/22 10:10*	*12/30/22 14:25*	*10*
13C5 PFPeA	*111*		*38 - 187*	*12/23/22 10:10*	*12/30/22 14:25*	*10*

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

Job ID: 410-109302-1

Client Sample ID: TACK-07-12132022

Date Collected: 12/13/22 09:50
Date Received: 12/15/22 10:30

Lab Sample ID: 410-109302-6

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
NEtFOSAA	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:46	1
NMeFOSAA	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
10:2 FTS	<4.5		4.5		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorobutanoic acid	<4.5		4.5		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluoropentanoic acid	**2.5**		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
NMeFOSE	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:46	1
NMeFOSA	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:46	1
NEtFOSE	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:46	1
NEtFOSA	<4.5		4.5		ng/L		12/23/22 10:10	12/30/22 03:46	1
HFPODA	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:46	1
DONA	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:46	1
6:2 Fluorotelomer sulfonic acid	**4.6**		4.5		ng/L		12/23/22 10:10	12/30/22 03:46	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*124*		*10 - 200*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
M2-8:2 FTS	*108*		*33 - 200*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
M2-6:2 FTS	*117*		*17 - 200*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C5 PFHxA	*98*		*24 - 179*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C4 PFHpA	*101*		*31 - 182*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C8 PFOA	*100*		*48 - 162*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C9 PFNA	*118*		*51 - 167*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C6 PFDA	*106*		*49 - 163*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C7 PFUnA	*110*		*34 - 174*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C2-PFDoDA	*106*		*17 - 176*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C2 PFTeDA	*84*		*10 - 179*	*12/23/22 10:10*	*12/30/22 03:46*	*1*

Client Sample ID: TACK-07-12132022

Lab Sample ID: 410-109302-6

Date Collected: 12/13/22 09:50

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 PFBS	*120*		*16 - 200*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C3 PFHxS	*108*		*28 - 188*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C8 PFOS	*111*		*51 - 159*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
d3-NMeFOSAA	*119*		*31 - 174*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
d5-NEtFOSAA	*133*		*29 - 195*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C8 FOSA	*109*		*10 - 168*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C4 PFBA	*108*		*42 - 165*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C5 PFPeA	*119*		*38 - 187*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
d7-N-MeFOSE-M	*109*		*10 - 178*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
d3-NMePFOSA	*62*		*10 - 155*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
d9-N-EtFOSE-M	*112*		*10 - 177*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
d5-NEtPFOSA	*64*		*10 - 159*	*12/23/22 10:10*	*12/30/22 03:46*	*1*
13C3 HFPO-DA	*107*		*17 - 185*	*12/23/22 10:10*	*12/30/22 03:46*	*1*

Client Sample ID: ACK-09-12132022

Lab Sample ID: 410-109302-7

Date Collected: 12/13/22 11:10

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorohexanesulfonic acid	**7.4**		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorooctanesulfonic acid	**5.2**		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
NEtFOSAA	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:57	1
NMeFOSAA	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
10:2 FTS	<4.5		4.5		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorobutanoic acid	<4.5		4.5		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
NMeFOSE	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:57	1
NMeFOSA	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:57	1
NEtFOSE	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:57	1
NEtFOSA	<4.5		4.5		ng/L		12/23/22 10:10	12/30/22 03:57	1
HFPODA	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:57	1
DONA	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1

Client Sample ID: ACK-09-12132022

Lab Sample ID: 410-109302-7

Date Collected: 12/13/22 11:10

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 03:57	1
6:2 Fluorotelomer sulfonic acid	<4.5		4.5		ng/L		12/23/22 10:10	12/30/22 03:57	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 03:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*138*		*10 - 200*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
M2-8:2 FTS	*101*		*33 - 200*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
M2-6:2 FTS	*123*		*17 - 200*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C5 PFHxA	*109*		*24 - 179*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C4 PFHpA	*108*		*31 - 182*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C8 PFOA	*106*		*48 - 162*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C9 PFNA	*122*		*51 - 167*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C6 PFDA	*105*		*49 - 163*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C7 PFUnA	*113*		*34 - 174*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C2-PFDoDA	*105*		*17 - 176*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C3 PFBS	*127*		*16 - 200*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C3 PFHxS	*113*		*28 - 188*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C8 PFOS	*117*		*51 - 159*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
d3-NMeFOSAA	*123*		*31 - 174*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
d5-NEtFOSAA	*138*		*29 - 195*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C8 FOSA	*113*		*10 - 168*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C4 PFBA	*112*		*42 - 165*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C5 PFPeA	*124*		*38 - 187*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
d7-N-MeFOSE-M	*105*		*10 - 178*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
d3-NMePFOSA	*51*		*10 - 155*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
d9-N-EtFOSE-M	*104*		*10 - 177*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
d5-NEtPFOSA	*54*		*10 - 159*	*12/23/22 10:10*	*12/30/22 03:57*	*1*
13C3 HFPO-DA	*123*		*17 - 185*	*12/23/22 10:10*	*12/30/22 03:57*	*1*

Client Sample ID: ACK-11-12132022

Lab Sample ID: 410-109302-8

Date Collected: 12/13/22 13:35

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**9.8**		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluoroheptanoic acid	**3.1**		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorooctanoic acid	**6.7**		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorononanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorobutanesulfonic acid	**4.6**		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorohexanesulfonic acid	**35**		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorooctanesulfonic acid	**46**		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
NEtFOSAA	<2.5		2.5		ng/L		12/23/22 10:10	12/30/22 04:19	1

Client Sample ID: ACK-11-12132022
Date Collected: 12/13/22 13:35
Date Received: 12/15/22 10:30

Lab Sample ID: 410-109302-8
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
10:2 FTS	<4.2		4.2		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluoropentanesulfonic acid	**2.1**		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorobutanoic acid	**5.7**		4.2		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluoropentanoic acid	**19**		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
NMeFOSE	<2.5		2.5		ng/L		12/23/22 10:10	12/30/22 04:19	1
NMeFOSA	<2.5		2.5		ng/L		12/23/22 10:10	12/30/22 04:19	1
NEtFOSE	<2.5		2.5		ng/L		12/23/22 10:10	12/30/22 04:19	1
NEtFOSA	<4.2		4.2		ng/L		12/23/22 10:10	12/30/22 04:19	1
HFPODA	<2.5		2.5		ng/L		12/23/22 10:10	12/30/22 04:19	1
DONA	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/23/22 10:10	12/30/22 04:19	1
6:2 Fluorotelomer sulfonic acid	<4.2		4.2		ng/L		12/23/22 10:10	12/30/22 04:19	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		12/23/22 10:10	12/30/22 04:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*171*		*10 - 200*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
M2-8:2 FTS	*110*		*33 - 200*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
M2-6:2 FTS	*123*		*17 - 200*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C5 PFHxA	*106*		*24 - 179*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C4 PFHpA	*102*		*31 - 182*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C8 PFOA	*102*		*48 - 162*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C9 PFNA	*121*		*51 - 167*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C6 PFDA	*103*		*49 - 163*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C7 PFUnA	*108*		*34 - 174*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C2-PFDoDA	*101*		*17 - 176*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C2 PFTeDA	*103*		*10 - 179*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C3 PFBS	*113*		*16 - 200*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C3 PFHxS	*105*		*28 - 188*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C8 PFOS	*113*		*51 - 159*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
d3-NMeFOSAA	*122*		*31 - 174*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
d5-NEtFOSAA	*131*		*29 - 195*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C8 FOSA	*102*		*10 - 168*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C4 PFBA	*104*		*42 - 165*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
13C5 PFPeA	*119*		*38 - 187*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
d7-N-MeFOSE-M	*99*		*10 - 178*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
d3-NMePFOSA	*74*		*10 - 155*	*12/23/22 10:10*	*12/30/22 04:19*	*1*
d9-N-EtFOSE-M	*103*		*10 - 177*	*12/23/22 10:10*	*12/30/22 04:19*	*1*

Client Sample ID: ACK-11-12132022

Lab Sample ID: 410-109302-8

Date Collected: 12/13/22 13:35

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	82		10 - 159	12/23/22 10:10	12/30/22 04:19	1
13C3 HFPO-DA	114		17 - 185	12/23/22 10:10	12/30/22 04:19	1

Client Sample ID: FB-121322

Lab Sample ID: 410-109302-9

Date Collected: 12/13/22 13:50

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorononanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
NEtFOSAA	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 04:30	1
NMeFOSAA	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
10:2 FTS	<4.4		4.4		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluoropentanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluoroheptanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorononanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorodecanesulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorododecanesulfonic acid (PFDoS)	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorooctanesulfonamide	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorohexadecanoic acid	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorooctadecanoic acid	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorobutanoic acid	<4.4		4.4		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluoropentanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
NMeFOSE	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 04:30	1
NMeFOSA	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 04:30	1
NEtFOSE	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 04:30	1
NEtFOSA	<4.4		4.4		ng/L		12/23/22 10:10	12/30/22 04:30	1
HFPODA	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 04:30	1
DONA	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
9Cl-PF3ONS	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
11Cl-PF3OUdS	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
4:2 Fluorotelomer sulfonic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		12/23/22 10:10	12/30/22 04:30	1
6:2 Fluorotelomer sulfonic acid	<4.4		4.4		ng/L		12/23/22 10:10	12/30/22 04:30	1
8:2 Fluorotelomer sulfonic acid	<2.7		2.7		ng/L		12/23/22 10:10	12/30/22 04:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	104		10 - 200	12/23/22 10:10	12/30/22 04:30	1
M2-8:2 FTS	98		33 - 200	12/23/22 10:10	12/30/22 04:30	1
M2-6:2 FTS	101		17 - 200	12/23/22 10:10	12/30/22 04:30	1

Client Sample ID: FB-121322

Lab Sample ID: 410-109302-9

Date Collected: 12/13/22 13:50

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	105		24 - 179	12/23/22 10:10	12/30/22 04:30	1
13C4 PFHpA	103		31 - 182	12/23/22 10:10	12/30/22 04:30	1
13C8 PFOA	100		48 - 162	12/23/22 10:10	12/30/22 04:30	1
13C9 PFNA	119		51 - 167	12/23/22 10:10	12/30/22 04:30	1
13C6 PFDA	104		49 - 163	12/23/22 10:10	12/30/22 04:30	1
13C7 PFUnA	107		34 - 174	12/23/22 10:10	12/30/22 04:30	1
13C2-PFDoDA	100		17 - 176	12/23/22 10:10	12/30/22 04:30	1
13C2 PFTeDA	94		10 - 179	12/23/22 10:10	12/30/22 04:30	1
13C3 PFBS	102		16 - 200	12/23/22 10:10	12/30/22 04:30	1
13C3 PFHxS	105		28 - 188	12/23/22 10:10	12/30/22 04:30	1
13C8 PFOS	111		51 - 159	12/23/22 10:10	12/30/22 04:30	1
d3-NMeFOSAA	119		31 - 174	12/23/22 10:10	12/30/22 04:30	1
d5-NEtFOSAA	126		29 - 195	12/23/22 10:10	12/30/22 04:30	1
13C8 FOSA	111		10 - 168	12/23/22 10:10	12/30/22 04:30	1
13C4 PFBA	107		42 - 165	12/23/22 10:10	12/30/22 04:30	1
13C5 PFPeA	109		38 - 187	12/23/22 10:10	12/30/22 04:30	1
d7-N-MeFOSE-M	95		10 - 178	12/23/22 10:10	12/30/22 04:30	1
d3-NMePFOSA	81		10 - 155	12/23/22 10:10	12/30/22 04:30	1
d9-N-EtFOSE-M	96		10 - 177	12/23/22 10:10	12/30/22 04:30	1
d5-NEtPFOSA	92		10 - 159	12/23/22 10:10	12/30/22 04:30	1
13C3 HFPO-DA	128		17 - 185	12/23/22 10:10	12/30/22 04:30	1

Client Sample ID: EB-121322

Lab Sample ID: 410-109302-10

Date Collected: 12/13/22 14:00

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluoroheptanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorooctanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorononanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorodecanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorotridecanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorotetradecanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorobutanesulfonic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorohexanesulfonic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorooctanesulfonic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
NEtFOSAA	<2.8		2.8		ng/L		12/23/22 10:10	12/30/22 04:41	1
NMeFOSAA	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
10:2 FTS	<4.6		4.6		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluoropentanesulfonic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluoroheptanesulfonic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorononanesulfonic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorodecanesulfonic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorododecanesulfonic acid (PFDoS)	<2.8		2.8		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorooctanesulfonamide	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorohexadecanoic acid	<2.8		2.8		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorooctadecanoic acid	<2.8		2.8		ng/L		12/23/22 10:10	12/30/22 04:41	1

Client Sample ID: EB-121322

Lab Sample ID: 410-109302-10

Date Collected: 12/13/22 14:00

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	<4.6		4.6		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluoropentanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
NMeFOSE	<2.8		2.8		ng/L		12/23/22 10:10	12/30/22 04:41	1
NMeFOSA	<2.8		2.8		ng/L		12/23/22 10:10	12/30/22 04:41	1
NEtFOSE	<2.8		2.8		ng/L		12/23/22 10:10	12/30/22 04:41	1
NEtFOSA	<4.6		4.6		ng/L		12/23/22 10:10	12/30/22 04:41	1
HFPODA	<2.8		2.8		ng/L		12/23/22 10:10	12/30/22 04:41	1
DONA	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
9Cl-PF3ONS	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
11Cl-PF3OUdS	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluorododecanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
4:2 Fluorotelomer sulfonic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
Perfluoroundecanoic acid	<1.9		1.9		ng/L		12/23/22 10:10	12/30/22 04:41	1
6:2 Fluorotelomer sulfonic acid	<4.6		4.6		ng/L		12/23/22 10:10	12/30/22 04:41	1
8:2 Fluorotelomer sulfonic acid	<2.8		2.8		ng/L		12/23/22 10:10	12/30/22 04:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*107*		*10 - 200*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
M2-8:2 FTS	*115*		*33 - 200*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
M2-6:2 FTS	*107*		*17 - 200*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C5 PFHxA	*111*		*24 - 179*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C4 PFHpA	*107*		*31 - 182*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C8 PFOA	*107*		*48 - 162*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C9 PFNA	*127*		*51 - 167*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C6 PFDA	*105*		*49 - 163*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C7 PFUnA	*108*		*34 - 174*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C2-PFDoDA	*101*		*17 - 176*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C2 PFTeDA	*109*		*10 - 179*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C3 PFBS	*104*		*16 - 200*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C3 PFHxS	*108*		*28 - 188*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C8 PFOS	*113*		*51 - 159*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
d3-NMeFOSAA	*119*		*31 - 174*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
d5-NEtFOSAA	*135*		*29 - 195*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C8 FOSA	*110*		*10 - 168*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C4 PFBA	*108*		*42 - 165*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C5 PFPeA	*111*		*38 - 187*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
d7-N-MeFOSE-M	*91*		*10 - 178*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
d3-NMePFOSA	*79*		*10 - 155*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
d9-N-EtFOSE-M	*96*		*10 - 177*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
d5-NEtPFOSA	*84*		*10 - 159*	*12/23/22 10:10*	*12/30/22 04:41*	*1*
13C3 HFPO-DA	*115*		*17 - 185*	*12/23/22 10:10*	*12/30/22 04:41*	*1*

Client Sample ID: ACK-08-12142022

Lab Sample ID: 410-109302-11

Date Collected: 12/14/22 09:25

Matrix: Water

Date Received: 12/15/22 10:30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1

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

Job ID: 410-109302-1

Client Sample ID: ACK-08-12142022

Date Collected: 12/14/22 09:25
Date Received: 12/15/22 10:30

Lab Sample ID: 410-109302-11

Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
NEtFOSAA	<2.5		2.5		ng/L		12/27/22 10:36	12/31/22 07:05	1
NMeFOSAA	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
10:2 FTS	<4.1		4.1		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluoropentanesulfonic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluoroheptanesulfonic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorononanesulfonic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorodecanesulfonic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorododecanesulfonic acid (PFDoS)	<2.5		2.5		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorooctanesulfonamide	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorohexadecanoic acid	<2.5		2.5		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorooctadecanoic acid	<2.5		2.5		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorobutanoic acid	<4.1		4.1		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluoropentanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
NMeFOSE	<2.5		2.5		ng/L		12/27/22 10:36	12/31/22 07:05	1
NMeFOSA	<2.5		2.5		ng/L		12/27/22 10:36	12/31/22 07:05	1
NEtFOSE	<2.5		2.5		ng/L		12/27/22 10:36	12/31/22 07:05	1
NEtFOSA	<4.1		4.1		ng/L		12/27/22 10:36	12/31/22 07:05	1
HFPODA	<2.5		2.5		ng/L		12/27/22 10:36	12/31/22 07:05	1
DONA	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
9Cl-PF3ONS	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
11Cl-PF3OUdS	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
4:2 Fluorotelomer sulfonic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		12/27/22 10:36	12/31/22 07:05	1
6:2 Fluorotelomer sulfonic acid	<4.1		4.1		ng/L		12/27/22 10:36	12/31/22 07:05	1
8:2 Fluorotelomer sulfonic acid	<2.5		2.5		ng/L		12/27/22 10:36	12/31/22 07:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*255*	*5+ cn	*10 - 200*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
M2-8:2 FTS	*121*		*33 - 200*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
M2-6:2 FTS	*115*		*17 - 200*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C5 PFHxA	*111*		*24 - 179*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C4 PFHpA	*104*		*31 - 182*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C8 PFOA	*99*		*48 - 162*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C9 PFNA	*106*		*51 - 167*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C6 PFDA	*108*		*49 - 163*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C7 PFUnA	*100*		*34 - 174*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C2-PFDoDA	*99*		*17 - 176*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C2 PFTeDA	*99*		*10 - 179*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C3 PFBS	*117*		*16 - 200*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C3 PFHxS	*102*		*28 - 188*	*12/27/22 10:36*	*12/31/22 07:05*	*1*
13C8 PFOS	*109*		*51 - 159*	*12/27/22 10:36*	*12/31/22 07:05*	*1*

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

Job ID: 410-109302-1

Client Sample ID: ACK-08-12142022
Date Collected: 12/14/22 09:25
Date Received: 12/15/22 10:30

Lab Sample ID: 410-109302-11
Matrix: Water

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	108		31 - 174	12/27/22 10:36	12/31/22 07:05	1
d5-NEtFOSAA	103		29 - 195	12/27/22 10:36	12/31/22 07:05	1
13C8 FOSA	98		10 - 168	12/27/22 10:36	12/31/22 07:05	1
13C4 PFBA	109		42 - 165	12/27/22 10:36	12/31/22 07:05	1
13C5 PFPeA	119		38 - 187	12/27/22 10:36	12/31/22 07:05	1
d7-N-MeFOSE-M	89		10 - 178	12/27/22 10:36	12/31/22 07:05	1
d3-NMePFOSA	72		10 - 155	12/27/22 10:36	12/31/22 07:05	1
d9-N-EtFOSE-M	96		10 - 177	12/27/22 10:36	12/31/22 07:05	1
d5-NEtPFOSA	67		10 - 159	12/27/22 10:36	12/31/22 07:05	1
13C3 HFPO-DA	98		17 - 185	12/27/22 10:36	12/31/22 07:05	1

Isotope Dilution Summary

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

Job ID: 410-109302-1

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 (10-200)	M282FTS (33-200)	M262FTS (17-200)	13C5PHA (24-179)	C4PFHA (31-182)	C8PFOA (48-162)	C9PFNA (51-167)	C6PFDA (49-163)
410-109302-1	LB-04-12122022	131	119	125	124	132	125	131	122
410-109302-2	LB-03-12122022	149	122	117	115	122	112	118	120
410-109302-3	ACK-15-12122022	211 *5+ cn	122	122	121	120	114	122	116
410-109302-4	EB-12122022	118	128	122	126	128	117	125	127
410-109302-5	ACK-10-12132022	432 *5+ cn	140	146	236 *5+ cn	228 *5+ cn	93	113	105
410-109302-5 - DL	ACK-10-12132022					127 cn			
410-109302-6	TACK-07-12132022	124	108	117	98	101	100	118	106
410-109302-7	ACK-09-12132022	138	101	123	109	108	106	122	105
410-109302-8	ACK-11-12132022	171	110	123	106	102	102	121	103
410-109302-9	FB-121322	104	98	101	105	103	100	119	104
410-109302-10	EB-121322	107	115	107	111	107	107	127	105
410-109302-11	ACK-08-12142022	255 *5+ cn	121	115	111	104	99	106	108
LCS 410-329988/2-A	Lab Control Sample	105	111	113	118	118	120	115	116
LCS 410-330138/2-A	Lab Control Sample	91	111	102	97	93	96	113	102
LCS 410-330409/2-A	Lab Control Sample	97	91	90	97	95	89	101	89
LCSD 410-330138/3-A	Lab Control Sample Dup	91	107	111	104	101	101	120	105
LCSD 410-330409/3-A	Lab Control Sample Dup	93	89	92	95	93	93	105	90
MB 410-329988/1-A	Method Blank	99	104	98	100	96	91	103	95
MB 410-330138/1-A	Method Blank	83	102	90	94	93	92	104	93
MB 410-330409/1-A	Method Blank	91	86	89	94	91	89	97	96

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFDoDA (17-176)	PFTDA (10-179)	C3PFBS (16-200)	C3PFHS (28-188)	C8PFOS (51-159)	d3NMFOS (31-174)	d5NEFOS (29-195)
410-109302-1	LB-04-12122022	121	119	124	150	136	133	135	142
410-109302-2	LB-03-12122022	117	119	137	142	120	129	124	124
410-109302-3	ACK-15-12122022	122	128	154	138	121	128	129	135
410-109302-4	EB-12122022	131	137	161	133	127	131	142	150
410-109302-5	ACK-10-12132022	114	104	97	137	244 *5+ cn	110	132	144
410-109302-5 - DL	ACK-10-12132022								
410-109302-6	TACK-07-12132022	110	106	84	120	108	111	119	133
410-109302-7	ACK-09-12132022	113	105	101	127	113	117	123	138
410-109302-8	ACK-11-12132022	108	101	103	113	105	113	122	131
410-109302-9	FB-121322	107	100	94	102	105	111	119	126
410-109302-10	EB-121322	108	101	109	104	108	113	119	135
410-109302-11	ACK-08-12142022	100	99	99	117	102	109	108	103
LCS 410-329988/2-A	Lab Control Sample	114	118	146	124	120	118	123	125
LCS 410-330138/2-A	Lab Control Sample	102	96	91	97	98	110	113	125
LCS 410-330409/2-A	Lab Control Sample	88	87	97	87	93	100	90	87
LCSD 410-330138/3-A	Lab Control Sample Dup	109	102	95	102	103	112	118	130
LCSD 410-330409/3-A	Lab Control Sample Dup	88	87	86	94	91	106	95	90
MB 410-329988/1-A	Method Blank	104	103	106	94	94	102	102	105
MB 410-330138/1-A	Method Blank	99	93	86	92	93	101	113	114
MB 410-330409/1-A	Method Blank	94	88	91	94	88	98	90	87

Isotope Dilution Summary

Client: Weston Solutions, Inc. Job ID: 410-109302-1
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	PFOSA (10-168)	PFBA (42-165)	PFPeA (38-187)	NMFM (10-178)	d3NMFSA (10-155)	NEFM (10-177)	d5NPFSA (10-159)	HFPODA (17-185)
410-109302-1	LB-04-12122022	118	129	142	116	82	118	91	121
410-109302-2	LB-03-12122022	117	120	138	126	103	118	107	105
410-109302-3	ACK-15-12122022	114	115	142	112	67	110	70	100
410-109302-4	EB-12122022	130	121	131	82	101	83	103	113
410-109302-5	ACK-10-12132022	109	109	117	102	58	98	55	291 *5+ cn
410-109302-5 - DL	ACK-10-12132022			111					
410-109302-6	TACK-07-12132022	109	108	119	109	62	112	64	107
410-109302-7	ACK-09-12132022	113	112	124	105	51	104	54	123
410-109302-8	ACK-11-12132022	102	104	119	99	74	103	82	114
410-109302-9	FB-121322	111	107	109	95	81	96	92	128
410-109302-10	EB-121322	110	108	111	91	79	96	84	115
410-109302-11	ACK-08-12142022	98	109	119	89	72	96	67	98
LCS 410-329988/2-A	Lab Control Sample	109	118	126	109	86	109	96	108
LCS 410-330138/2-A	Lab Control Sample	106	107	107	96	63	98	69	99
LCS 410-330409/2-A	Lab Control Sample	84	97	93	78	53	77	50	99
LCSD 410-330138/3-A	Lab Control Sample Dup	112	107	110	100	55	101	63	112
LCSD 410-330409/3-A	Lab Control Sample Dup	88	101	97	73	46	77	47	91
MB 410-329988/1-A	Method Blank	89	95	93	94	64	93	64	87
MB 410-330138/1-A	Method Blank	99	100	99	89	51	87	54	116
MB 410-330409/1-A	Method Blank	85	100	97	79	53	84	52	94

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

Lab Sample ID: MB 410-329988/1-A
Matrix: Water
Analysis Batch: 331216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorononanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
NEtFOSAA	<3.0		3.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
NMeFOSAA	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
10:2 FTS	<5.0		5.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
NMeFOSE	<3.0		3.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
NMeFOSA	<3.0		3.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
NEtFOSE	<3.0		3.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
NEtFOSA	<5.0		5.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
HFPODA	<3.0		3.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
DONA	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
9Cl-PF3ONS	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		12/22/22 17:59	12/29/22 15:06	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		12/22/22 17:59	12/29/22 15:06	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*99*		*10 - 200*	*12/22/22 17:59*	*12/29/22 15:06*	*1*
M2-8:2 FTS	*104*		*33 - 200*	*12/22/22 17:59*	*12/29/22 15:06*	*1*
M2-6:2 FTS	*98*		*17 - 200*	*12/22/22 17:59*	*12/29/22 15:06*	*1*
13C5 PFHxA	*100*		*24 - 179*	*12/22/22 17:59*	*12/29/22 15:06*	*1*
13C4 PFHpA	*96*		*31 - 182*	*12/22/22 17:59*	*12/29/22 15:06*	*1*
13C8 PFOA	*91*		*48 - 162*	*12/22/22 17:59*	*12/29/22 15:06*	*1*
13C9 PFNA	*103*		*51 - 167*	*12/22/22 17:59*	*12/29/22 15:06*	*1*
13C6 PFDA	*95*		*49 - 163*	*12/22/22 17:59*	*12/29/22 15:06*	*1*
13C7 PFUnA	*104*		*34 - 174*	*12/22/22 17:59*	*12/29/22 15:06*	*1*
13C2-PFDoDA	*103*		*17 - 176*	*12/22/22 17:59*	*12/29/22 15:06*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-329988/1-A
Matrix: Water
Analysis Batch: 331216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 329988

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	106		10 - 179	12/22/22 17:59	12/29/22 15:06	1
13C3 PFBS	94		16 - 200	12/22/22 17:59	12/29/22 15:06	1
13C3 PFHxS	94		28 - 188	12/22/22 17:59	12/29/22 15:06	1
13C8 PFOS	102		51 - 159	12/22/22 17:59	12/29/22 15:06	1
d3-NMeFOSAA	102		31 - 174	12/22/22 17:59	12/29/22 15:06	1
d5-NEtFOSAA	105		29 - 195	12/22/22 17:59	12/29/22 15:06	1
13C8 FOSA	89		10 - 168	12/22/22 17:59	12/29/22 15:06	1
13C4 PFBA	95		42 - 165	12/22/22 17:59	12/29/22 15:06	1
13C5 PFPeA	93		38 - 187	12/22/22 17:59	12/29/22 15:06	1
d7-N-MeFOSE-M	94		10 - 178	12/22/22 17:59	12/29/22 15:06	1
d3-NMePFOSA	64		10 - 155	12/22/22 17:59	12/29/22 15:06	1
d9-N-EtFOSE-M	93		10 - 177	12/22/22 17:59	12/29/22 15:06	1
d5-NEtPFOSA	64		10 - 159	12/22/22 17:59	12/29/22 15:06	1
13C3 HFPO-DA	87		17 - 185	12/22/22 17:59	12/29/22 15:06	1

Lab Sample ID: LCS 410-329988/2-A
Matrix: Water
Analysis Batch: 330821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	25.6		ng/L		100	58 - 139
Perfluoroheptanoic acid	25.6	25.7		ng/L		100	59 - 145
Perfluorooctanoic acid	25.6	25.9		ng/L		101	51 - 145
Perfluorononanoic acid	25.6	25.3		ng/L		99	61 - 139
Perfluorodecanoic acid	25.6	26.3		ng/L		103	56 - 138
Perfluorotridecanoic acid	25.6	30.3		ng/L		118	58 - 146
Perfluorotetradecanoic acid	25.6	25.1		ng/L		98	62 - 139
Perfluorobutanesulfonic acid	22.7	24.1		ng/L		106	53 - 138
Perfluorohexanesulfonic acid	23.3	23.5		ng/L		101	58 - 134
Perfluorooctanesulfonic acid	23.7	23.9		ng/L		101	45 - 150
NEtFOSAA	25.6	25.6		ng/L		100	55 - 134
NMeFOSAA	25.6	27.6		ng/L		108	59 - 140
10:2 FTS	24.7	28.1		ng/L		114	50 - 146
Perfluoropentanesulfonic acid	24.0	23.8		ng/L		99	55 - 140
Perfluoroheptanesulfonic acid	24.4	23.0		ng/L		95	56 - 140
Perfluorononanesulfonic acid	24.6	23.4		ng/L		95	59 - 136
Perfluorodecanesulfonic acid	24.7	23.2		ng/L		94	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	25.2		ng/L		102	48 - 138
Perfluorooctanesulfonamide	25.6	28.2		ng/L		110	43 - 167
Perfluorohexadecanoic acid	25.6	19.0		ng/L		74	41 - 158
Perfluorooctadecanoic acid	25.6	20.4		ng/L		80	29 - 172
Perfluorobutanoic acid	25.6	22.7		ng/L		89	59 - 136
Perfluoropentanoic acid	25.6	23.7		ng/L		93	57 - 141
NMeFOSE	25.6	24.8		ng/L		97	55 - 144
NMeFOSA	25.6	28.5		ng/L		111	64 - 143
NEtFOSE	25.6	23.9		ng/L		93	60 - 136
NEtFOSA	25.6	26.6		ng/L		104	61 - 134
HFPODA	25.6	25.7		ng/L		100	50 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-329988/2-A
Matrix: Water
Analysis Batch: 330821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 329988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	24.2	24.0		ng/L		99	55 - 143
9Cl-PF3ONS	23.8	23.9		ng/L		100	59 - 135
11Cl-PF3OUdS	23.8	23.8		ng/L		100	53 - 139
Perfluorododecanoic acid	25.6	26.0		ng/L		102	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	24.6		ng/L		103	55 - 139
Perfluoroundecanoic acid	25.6	25.6		ng/L		100	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	23.1		ng/L		95	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	24.4		ng/L		100	55 - 138

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*105*		*10 - 200*
M2-8:2 FTS	*111*		*33 - 200*
M2-6:2 FTS	*113*		*17 - 200*
13C5 PFHxA	*118*		*24 - 179*
13C4 PFHpA	*118*		*31 - 182*
13C8 PFOA	*120*		*48 - 162*
13C9 PFNA	*115*		*51 - 167*
13C6 PFDA	*116*		*49 - 163*
13C7 PFUnA	*114*		*34 - 174*
13C2-PFDoDA	*118*		*17 - 176*
13C2 PFTeDA	*146*		*10 - 179*
13C3 PFBS	*124*		*16 - 200*
13C3 PFHxS	*120*		*28 - 188*
13C8 PFOS	*118*		*51 - 159*
d3-NMeFOSAA	*123*		*31 - 174*
d5-NEtFOSAA	*125*		*29 - 195*
13C8 FOSA	*109*		*10 - 168*
13C4 PFBA	*118*		*42 - 165*
13C5 PFPeA	*126*		*38 - 187*
d7-N-MeFOSE-M	*109*		*10 - 178*
d3-NMePFOSA	*86*		*10 - 155*
d9-N-EtFOSE-M	*109*		*10 - 177*
d5-NEtPFOSA	*96*		*10 - 159*
13C3 HFPO-DA	*108*		*17 - 185*

Lab Sample ID: MB 410-330138/1-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 330138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorononanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-330138/1-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 330138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
NEtFOSAA	<3.0		3.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
NMeFOSAA	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
10:2 FTS	<5.0		5.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
NMeFOSE	<3.0		3.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
NMeFOSA	<3.0		3.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
NEtFOSE	<3.0		3.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
NEtFOSA	<5.0		5.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
HFPODA	<3.0		3.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
DONA	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
9Cl-PF3ONS	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		12/23/22 10:10	12/30/22 01:44	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		12/23/22 10:10	12/30/22 01:44	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
M2-8:2 FTS	*102*		*33 - 200*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
M2-6:2 FTS	*90*		*17 - 200*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C5 PFHxA	*94*		*24 - 179*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C4 PFHpA	*93*		*31 - 182*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C8 PFOA	*92*		*48 - 162*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C9 PFNA	*104*		*51 - 167*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C6 PFDA	*93*		*49 - 163*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C7 PFUnA	*99*		*34 - 174*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C2-PFDoDA	*93*		*17 - 176*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C2 PFTeDA	*86*		*10 - 179*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C3 PFBS	*92*		*16 - 200*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C3 PFHxS	*93*		*28 - 188*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C8 PFOS	*101*		*51 - 159*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
d3-NMeFOSAA	*113*		*31 - 174*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
d5-NEtFOSAA	*114*		*29 - 195*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C8 FOSA	*99*		*10 - 168*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C4 PFBA	*100*		*42 - 165*	*12/23/22 10:10*	*12/30/22 01:44*	*1*
13C5 PFPeA	*99*		*38 - 187*	*12/23/22 10:10*	*12/30/22 01:44*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-330138/1-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 330138

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	89		10 - 178	12/23/22 10:10	12/30/22 01:44	1
d3-NMePFOSA	51		10 - 155	12/23/22 10:10	12/30/22 01:44	1
d9-N-EtFOSE-M	87		10 - 177	12/23/22 10:10	12/30/22 01:44	1
d5-NEtPFOSA	54		10 - 159	12/23/22 10:10	12/30/22 01:44	1
13C3 HFPO-DA	116		17 - 185	12/23/22 10:10	12/30/22 01:44	1

Lab Sample ID: LCS 410-330138/2-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 330138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	25.4		ng/L		99	58 - 139
Perfluoroheptanoic acid	25.6	27.1		ng/L		106	59 - 145
Perfluorooctanoic acid	25.6	26.3		ng/L		103	51 - 145
Perfluorononanoic acid	25.6	26.1		ng/L		102	61 - 139
Perfluorodecanoic acid	25.6	25.6		ng/L		100	56 - 138
Perfluorotridecanoic acid	25.6	27.5		ng/L		107	58 - 146
Perfluorotetradecanoic acid	25.6	25.9		ng/L		101	62 - 139
Perfluorobutanesulfonic acid	22.7	24.5		ng/L		108	53 - 138
Perfluorohexanesulfonic acid	23.3	22.8		ng/L		98	58 - 134
Perfluorooctanesulfonic acid	23.7	23.2		ng/L		98	45 - 150
NEtFOSAA	25.6	24.8		ng/L		97	55 - 134
NMeFOSAA	25.6	26.1		ng/L		102	59 - 140
10:2 FTS	24.7	23.1		ng/L		93	50 - 146
Perfluoropentanesulfonic acid	24.0	25.7		ng/L		107	55 - 140
Perfluoroheptanesulfonic acid	24.4	21.6		ng/L		89	56 - 140
Perfluorononanesulfonic acid	24.6	23.6		ng/L		96	59 - 136
Perfluorodecanesulfonic acid	24.7	24.4		ng/L		99	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	23.9		ng/L		96	48 - 138
Perfluorooctanesulfonamide	25.6	24.9		ng/L		97	43 - 167
Perfluorohexadecanoic acid	25.6	21.7		ng/L		85	41 - 158
Perfluorooctadecanoic acid	25.6	20.4		ng/L		80	29 - 172
Perfluorobutanoic acid	25.6	22.1		ng/L		86	59 - 136
Perfluoropentanoic acid	25.6	24.4		ng/L		95	57 - 141
NMeFOSE	25.6	24.4		ng/L		95	55 - 144
NMeFOSA	25.6	28.7		ng/L		112	64 - 143
NEtFOSE	25.6	23.8		ng/L		93	60 - 136
NEtFOSA	25.6	25.0		ng/L		98	61 - 134
HFPODA	25.6	22.9		ng/L		90	50 - 135
DONA	24.2	24.2		ng/L		100	55 - 143
9Cl-PF3ONS	23.8	23.1		ng/L		97	59 - 135
11Cl-PF3OUdS	23.8	24.2		ng/L		102	53 - 139
Perfluorododecanoic acid	25.6	25.3		ng/L		99	59 - 143
4:2 Fluorotelomer sulfonic acid	23.9	22.8		ng/L		95	55 - 139
Perfluoroundecanoic acid	25.6	26.2		ng/L		102	60 - 141
6:2 Fluorotelomer sulfonic acid	24.3	22.9		ng/L		94	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	21.3		ng/L		87	55 - 138

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	91		10 - 200
M2-8:2 FTS	111		33 - 200
M2-6:2 FTS	102		17 - 200
13C5 PFHxA	97		24 - 179
13C4 PFHpA	93		31 - 182
13C8 PFOA	96		48 - 162
13C9 PFNA	113		51 - 167
13C6 PFDA	102		49 - 163
13C7 PFUnA	102		34 - 174
13C2-PFDoDA	96		17 - 176
13C2 PFTeDA	91		10 - 179
13C3 PFBS	97		16 - 200
13C3 PFHxS	98		28 - 188
13C8 PFOS	110		51 - 159
d3-NMeFOSAA	113		31 - 174
d5-NEtFOSAA	125		29 - 195
13C8 FOSA	106		10 - 168
13C4 PFBA	107		42 - 165
13C5 PFPeA	107		38 - 187
d7-N-MeFOSE-M	96		10 - 178
d3-NMePFOSA	63		10 - 155
d9-N-EtFOSE-M	98		10 - 177
d5-NEtPFOSA	69		10 - 159
13C3 HFPO-DA	99		17 - 185

Lab Sample ID: LCSD 410-330138/3-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 330138

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.6	24.2		ng/L		94	58 - 139	5	30
Perfluoroheptanoic acid	25.6	25.7		ng/L		100	59 - 145	5	30
Perfluorooctanoic acid	25.6	25.8		ng/L		101	51 - 145	2	30
Perfluorononanoic acid	25.6	24.2		ng/L		94	61 - 139	8	30
Perfluorodecanoic acid	25.6	26.1		ng/L		102	56 - 138	2	30
Perfluorotridecanoic acid	25.6	24.9		ng/L		97	58 - 146	10	30
Perfluorotetradecanoic acid	25.6	25.1		ng/L		98	62 - 139	3	30
Perfluorobutanesulfonic acid	22.7	22.9		ng/L		101	53 - 138	7	30
Perfluorohexanesulfonic acid	23.3	22.3		ng/L		95	58 - 134	2	30
Perfluorooctanesulfonic acid	23.7	22.1		ng/L		93	45 - 150	5	30
NEtFOSAA	25.6	23.8		ng/L		93	55 - 134	4	30
NMeFOSAA	25.6	25.3		ng/L		99	59 - 140	3	30
10:2 FTS	24.7	23.0		ng/L		93	50 - 146	0	30
Perfluoropentanesulfonic acid	24.0	24.4		ng/L		101	55 - 140	5	30
Perfluoroheptanesulfonic acid	24.4	21.0		ng/L		86	56 - 140	3	30
Perfluorononanesulfonic acid	24.6	22.7		ng/L		93	59 - 136	4	30
Perfluorodecanesulfonic acid	24.7	23.0		ng/L		93	55 - 137	6	30
Perfluorododecanesulfonic acid (PFDoS)	24.8	22.5		ng/L		91	48 - 138	6	30
Perfluorooctanesulfonamide	25.6	23.6		ng/L		92	43 - 167	5	30
Perfluorohexadecanoic acid	25.6	21.1		ng/L		82	41 - 158	3	30
Perfluorooctadecanoic acid	25.6	20.1		ng/L		78	29 - 172	2	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-330138/3-A
Matrix: Water
Analysis Batch: 331273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 330138

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid			25.6	22.0		ng/L		86	59 - 136	1	30
Perfluoropentanoic acid			25.6	23.8		ng/L		93	57 - 141	3	30
NMeFOSE			25.6	24.1		ng/L		94	55 - 144	1	30
NMeFOSA			25.6	27.7		ng/L		108	64 - 143	4	30
NEtFOSE			25.6	23.0		ng/L		90	60 - 136	3	30
NEtFOSA			25.6	25.0		ng/L		98	61 - 134	0	30
HFPODA			25.6	21.5		ng/L		84	50 - 135	7	30
DONA			24.2	23.2		ng/L		96	55 - 143	4	30
9Cl-PF3ONS			23.8	22.7		ng/L		95	59 - 135	2	30
11Cl-PF3OUdS			23.8	23.0		ng/L		97	53 - 139	5	30
Perfluorododecanoic acid			25.6	24.1		ng/L		94	59 - 143	5	30
4:2 Fluorotelomer sulfonic acid			23.9	24.5		ng/L		102	55 - 139	7	30
Perfluoroundecanoic acid			25.6	24.4		ng/L		95	60 - 141	7	30
6:2 Fluorotelomer sulfonic acid			24.3	21.1		ng/L		87	28 - 173	8	30
8:2 Fluorotelomer sulfonic acid			24.5	22.2		ng/L		90	55 - 138	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*91*		*10 - 200*
M2-8:2 FTS	*107*		*33 - 200*
M2-6:2 FTS	*111*		*17 - 200*
13C5 PFHxA	*104*		*24 - 179*
13C4 PFHpA	*101*		*31 - 182*
13C8 PFOA	*101*		*48 - 162*
13C9 PFNA	*120*		*51 - 167*
13C6 PFDA	*105*		*49 - 163*
13C7 PFUnA	*109*		*34 - 174*
13C2-PFDoDA	*102*		*17 - 176*
13C2 PFTeDA	*95*		*10 - 179*
13C3 PFBS	*102*		*16 - 200*
13C3 PFHxS	*103*		*28 - 188*
13C8 PFOS	*112*		*51 - 159*
d3-NMeFOSAA	*118*		*31 - 174*
d5-NEtFOSAA	*130*		*29 - 195*
13C8 FOSA	*112*		*10 - 168*
13C4 PFBA	*107*		*42 - 165*
13C5 PFPeA	*110*		*38 - 187*
d7-N-MeFOSE-M	*100*		*10 - 178*
d3-NMePFOSA	*55*		*10 - 155*
d9-N-EtFOSE-M	*101*		*10 - 177*
d5-NEtPFOSA	*63*		*10 - 159*
13C3 HFPO-DA	*112*		*17 - 185*

Lab Sample ID: MB 410-330409/1-A
Matrix: Water
Analysis Batch: 331684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 330409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-330409/1-A
Matrix: Water
Analysis Batch: 331684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 330409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorononanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
NEtFOSAA	<3.0		3.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
NMeFOSAA	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
10:2 FTS	<5.0		5.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluoropentanesulfonic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluoroheptanesulfonic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorononanesulfonic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorodecanesulfonic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		3.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorooctanesulfonamide	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorohexadecanoic acid	<3.0		3.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorooctadecanoic acid	<3.0		3.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorobutanoic acid	<5.0		5.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluoropentanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
NMeFOSE	<3.0		3.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
NMeFOSA	<3.0		3.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
NEtFOSE	<3.0		3.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
NEtFOSA	<5.0		5.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
HFPODA	<3.0		3.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
DONA	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
9Cl-PF3ONS	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
11Cl-PF3OUdS	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
4:2 Fluorotelomer sulfonic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
6:2 Fluorotelomer sulfonic acid	<5.0		5.0		ng/L		12/27/22 10:36	12/31/22 06:32	1
8:2 Fluorotelomer sulfonic acid	<3.0		3.0		ng/L		12/27/22 10:36	12/31/22 06:32	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*10 - 200*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
M2-8:2 FTS	*86*		*33 - 200*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
M2-6:2 FTS	*89*		*17 - 200*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
13C5 PFHxA	*94*		*24 - 179*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
13C4 PFHpA	*91*		*31 - 182*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
13C8 PFOA	*89*		*48 - 162*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
13C9 PFNA	*97*		*51 - 167*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
13C6 PFDA	*96*		*49 - 163*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
13C7 PFUnA	*94*		*34 - 174*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
13C2-PFDoDA	*88*		*17 - 176*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
13C2 PFTeDA	*91*		*10 - 179*	*12/27/22 10:36*	*12/31/22 06:32*	*1*
13C3 PFBS	*94*		*16 - 200*	*12/27/22 10:36*	*12/31/22 06:32*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-330409/1-A
Matrix: Water
Analysis Batch: 331684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 330409

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	88		28 - 188	12/27/22 10:36	12/31/22 06:32	1
13C8 PFOS	98		51 - 159	12/27/22 10:36	12/31/22 06:32	1
d3-NMeFOSAA	90		31 - 174	12/27/22 10:36	12/31/22 06:32	1
d5-NEtFOSAA	87		29 - 195	12/27/22 10:36	12/31/22 06:32	1
13C8 FOSA	85		10 - 168	12/27/22 10:36	12/31/22 06:32	1
13C4 PFBA	100		42 - 165	12/27/22 10:36	12/31/22 06:32	1
13C5 PFPeA	97		38 - 187	12/27/22 10:36	12/31/22 06:32	1
d7-N-MeFOSE-M	79		10 - 178	12/27/22 10:36	12/31/22 06:32	1
d3-NMePFOSA	53		10 - 155	12/27/22 10:36	12/31/22 06:32	1
d9-N-EtFOSE-M	84		10 - 177	12/27/22 10:36	12/31/22 06:32	1
d5-NEtPFOSA	52		10 - 159	12/27/22 10:36	12/31/22 06:32	1
13C3 HFPO-DA	94		17 - 185	12/27/22 10:36	12/31/22 06:32	1

Lab Sample ID: LCS 410-330409/2-A
Matrix: Water
Analysis Batch: 331684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 330409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	26.7		ng/L		104	58 - 139
Perfluoroheptanoic acid	25.6	28.3		ng/L		111	59 - 145
Perfluorooctanoic acid	25.6	28.6		ng/L		112	51 - 145
Perfluorononanoic acid	25.6	28.2		ng/L		110	61 - 139
Perfluorodecanoic acid	25.6	29.3		ng/L		115	56 - 138
Perfluorotridecanoic acid	25.6	28.8		ng/L		113	58 - 146
Perfluorotetradecanoic acid	25.6	26.8		ng/L		105	62 - 139
Perfluorobutanesulfonic acid	22.7	26.7		ng/L		118	53 - 138
Perfluorohexanesulfonic acid	23.3	26.0		ng/L		111	58 - 134
Perfluorooctanesulfonic acid	23.7	26.6		ng/L		112	45 - 150
NEtFOSAA	25.6	27.8		ng/L		109	55 - 134
NMeFOSAA	25.6	25.3		ng/L		99	59 - 140
10:2 FTS	24.7	26.9		ng/L		109	50 - 146
Perfluoropentanesulfonic acid	24.0	27.7		ng/L		115	55 - 140
Perfluoroheptanesulfonic acid	24.4	24.3		ng/L		100	56 - 140
Perfluorononanesulfonic acid	24.6	24.7		ng/L		100	59 - 136
Perfluorodecanesulfonic acid	24.7	26.0		ng/L		105	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	24.8	26.6		ng/L		107	48 - 138
Perfluorooctanesulfonamide	25.6	27.8		ng/L		109	43 - 167
Perfluorohexadecanoic acid	25.6	23.0		ng/L		90	41 - 158
Perfluorooctadecanoic acid	25.6	23.2		ng/L		91	29 - 172
Perfluorobutanoic acid	25.6	24.4		ng/L		96	59 - 136
Perfluoropentanoic acid	25.6	28.0		ng/L		109	57 - 141
NMeFOSE	25.6	26.8		ng/L		105	55 - 144
NMeFOSA	25.6	28.8		ng/L		113	64 - 143
NEtFOSE	25.6	27.2		ng/L		106	60 - 136
NEtFOSA	25.6	29.7		ng/L		116	61 - 134
HFPODA	25.6	27.1		ng/L		106	50 - 135
DONA	24.2	24.9		ng/L		103	55 - 143
9Cl-PF3ONS	23.8	26.6		ng/L		112	59 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-330409/2-A
Matrix: Water
Analysis Batch: 331684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 330409

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
11Cl-PF3OUdS			23.8	27.5		ng/L		116	53 - 139		
Perfluorododecanoic acid			25.6	27.0		ng/L		105	59 - 143		
4:2 Fluorotelomer sulfonic acid			23.9	25.3		ng/L		106	55 - 139		
Perfluoroundecanoic acid			25.6	29.5		ng/L		115	60 - 141		
6:2 Fluorotelomer sulfonic acid			24.3	27.3		ng/L		113	28 - 173		
8:2 Fluorotelomer sulfonic acid			24.5	22.9		ng/L		94	55 - 138		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*97*		*10 - 200*
M2-8:2 FTS	*91*		*33 - 200*
M2-6:2 FTS	*90*		*17 - 200*
13C5 PFHxA	*97*		*24 - 179*
13C4 PFHpA	*95*		*31 - 182*
13C8 PFOA	*89*		*48 - 162*
13C9 PFNA	*101*		*51 - 167*
13C6 PFDA	*89*		*49 - 163*
13C7 PFUnA	*88*		*34 - 174*
13C2-PFDoDA	*87*		*17 - 176*
13C2 PFTeDA	*97*		*10 - 179*
13C3 PFBS	*87*		*16 - 200*
13C3 PFHxS	*93*		*28 - 188*
13C8 PFOS	*100*		*51 - 159*
d3-NMeFOSAA	*90*		*31 - 174*
d5-NEtFOSAA	*87*		*29 - 195*
13C8 FOSA	*84*		*10 - 168*
13C4 PFBA	*97*		*42 - 165*
13C5 PFPeA	*93*		*38 - 187*
d7-N-MeFOSE-M	*78*		*10 - 178*
d3-NMePFOSA	*53*		*10 - 155*
d9-N-EtFOSE-M	*77*		*10 - 177*
d5-NEtPFOSA	*50*		*10 - 159*
13C3 HFPO-DA	*99*		*17 - 185*

Lab Sample ID: LCSD 410-330409/3-A
Matrix: Water
Analysis Batch: 331684

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 330409

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	26.9		ng/L		105	58 - 139	1	30
Perfluoroheptanoic acid			25.6	28.4		ng/L		111	59 - 145	0	30
Perfluorooctanoic acid			25.6	27.0		ng/L		105	51 - 145	6	30
Perfluorononanoic acid			25.6	29.3		ng/L		114	61 - 139	4	30
Perfluorodecanoic acid			25.6	29.7		ng/L		116	56 - 138	1	30
Perfluorotridecanoic acid			25.6	27.8		ng/L		109	58 - 146	4	30
Perfluorotetradecanoic acid			25.6	28.5		ng/L		111	62 - 139	6	30
Perfluorobutanesulfonic acid			22.7	25.4		ng/L		112	53 - 138	5	30
Perfluorohexanesulfonic acid			23.3	25.2		ng/L		108	58 - 134	3	30
Perfluorooctanesulfonic acid			23.7	24.8		ng/L		105	45 - 150	7	30
NEtFOSAA			25.6	26.5		ng/L		104	55 - 134	5	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-330409/3-A
Matrix: Water
Analysis Batch: 331684

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 330409

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NMeFOSAA			25.6	24.9		ng/L		97	59 - 140	1	30
10:2 FTS			24.7	23.9		ng/L		97	50 - 146	12	30
Perfluoropentanesulfonic acid			24.0	25.7		ng/L		107	55 - 140	7	30
Perfluoroheptanesulfonic acid			24.4	25.3		ng/L		104	56 - 140	4	30
Perfluorononanesulfonic acid			24.6	24.2		ng/L		98	59 - 136	2	30
Perfluorodecanesulfonic acid			24.7	23.7		ng/L		96	55 - 137	9	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	24.7		ng/L		100	48 - 138	7	30
Perfluorooctanesulfonamide			25.6	29.0		ng/L		113	43 - 167	4	30
Perfluorohexadecanoic acid			25.6	27.3		ng/L		107	41 - 158	17	30
Perfluorooctadecanoic acid			25.6	23.7		ng/L		93	29 - 172	2	30
Perfluorobutanoic acid			25.6	24.0		ng/L		94	59 - 136	2	30
Perfluoropentanoic acid			25.6	26.8		ng/L		105	57 - 141	4	30
NMeFOSE			25.6	27.3		ng/L		107	55 - 144	2	30
NMeFOSA			25.6	30.6		ng/L		120	64 - 143	6	30
NEtFOSE			25.6	25.1		ng/L		98	60 - 136	8	30
NEtFOSA			25.6	27.9		ng/L		109	61 - 134	6	30
HFPODA			25.6	28.3		ng/L		111	50 - 135	4	30
DONA			24.2	26.6		ng/L		110	55 - 143	7	30
9Cl-PF3ONS			23.8	26.2		ng/L		110	59 - 135	1	30
11Cl-PF3OUdS			23.8	26.0		ng/L		109	53 - 139	6	30
Perfluorododecanoic acid			25.6	27.4		ng/L		107	59 - 143	1	30
4:2 Fluorotelomer sulfonic acid			23.9	25.3		ng/L		106	55 - 139	0	30
Perfluoroundecanoic acid			25.6	28.6		ng/L		112	60 - 141	3	30
6:2 Fluorotelomer sulfonic acid			24.3	25.3		ng/L		104	28 - 173	8	30
8:2 Fluorotelomer sulfonic acid			24.5	26.5		ng/L		108	55 - 138	14	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*93*		*10 - 200*
M2-8:2 FTS	*89*		*33 - 200*
M2-6:2 FTS	*92*		*17 - 200*
13C5 PFHxA	*95*		*24 - 179*
13C4 PFHpA	*93*		*31 - 182*
13C8 PFOA	*93*		*48 - 162*
13C9 PFNA	*105*		*51 - 167*
13C6 PFDA	*90*		*49 - 163*
13C7 PFUnA	*88*		*34 - 174*
13C2-PFDoDA	*87*		*17 - 176*
13C2 PFTeDA	*86*		*10 - 179*
13C3 PFBS	*94*		*16 - 200*
13C3 PFHxS	*91*		*28 - 188*
13C8 PFOS	*106*		*51 - 159*
d3-NMeFOSAA	*95*		*31 - 174*
d5-NEtFOSAA	*90*		*29 - 195*
13C8 FOSA	*88*		*10 - 168*
13C4 PFBA	*101*		*42 - 165*
13C5 PFPeA	*97*		*38 - 187*
d7-N-MeFOSE-M	*73*		*10 - 178*
d3-NMePFOSA	*46*		*10 - 155*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-330409/3-A
Matrix: Water
Analysis Batch: 331684

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 330409

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
d9-N-EtFOSE-M	77		10 - 177
d5-NEtPFOSA	47		10 - 159
13C3 HFPO-DA	91		17 - 185

LCMS

Prep Batch: 329988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-109302-1	LB-04-12122022	Total/NA	Water	EPA 537 (mod)	
410-109302-2	LB-03-12122022	Total/NA	Water	EPA 537 (mod)	
410-109302-3	ACK-15-12122022	Total/NA	Water	EPA 537 (mod)	
410-109302-4	EB-12122022	Total/NA	Water	EPA 537 (mod)	
MB 410-329988/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-329988/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 330138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-109302-5 - DL	ACK-10-12132022	Total/NA	Water	EPA 537 (mod)	
410-109302-5 - RA	ACK-10-12132022	Total/NA	Water	EPA 537 (mod)	
410-109302-5	ACK-10-12132022	Total/NA	Water	EPA 537 (mod)	
410-109302-6	TACK-07-12132022	Total/NA	Water	EPA 537 (mod)	
410-109302-7	ACK-09-12132022	Total/NA	Water	EPA 537 (mod)	
410-109302-8	ACK-11-12132022	Total/NA	Water	EPA 537 (mod)	
410-109302-9	FB-121322	Total/NA	Water	EPA 537 (mod)	
410-109302-10	EB-121322	Total/NA	Water	EPA 537 (mod)	
MB 410-330138/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-330138/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-330138/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Prep Batch: 330409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-109302-11	ACK-08-12142022	Total/NA	Water	EPA 537 (mod)	
MB 410-330409/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-330409/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-330409/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 330821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-109302-1	LB-04-12122022	Total/NA	Water	EPA 537 (Mod)	329988
410-109302-2	LB-03-12122022	Total/NA	Water	EPA 537 (Mod)	329988
410-109302-3	ACK-15-12122022	Total/NA	Water	EPA 537 (Mod)	329988
410-109302-4	EB-12122022	Total/NA	Water	EPA 537 (Mod)	329988
LCS 410-329988/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	329988

Analysis Batch: 331216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-329988/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	329988

Analysis Batch: 331273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-109302-5	ACK-10-12132022	Total/NA	Water	EPA 537 (Mod)	330138
410-109302-6	TACK-07-12132022	Total/NA	Water	EPA 537 (Mod)	330138
410-109302-7	ACK-09-12132022	Total/NA	Water	EPA 537 (Mod)	330138
410-109302-8	ACK-11-12132022	Total/NA	Water	EPA 537 (Mod)	330138
410-109302-9	FB-121322	Total/NA	Water	EPA 537 (Mod)	330138
410-109302-10	EB-121322	Total/NA	Water	EPA 537 (Mod)	330138
MB 410-330138/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	330138
LCS 410-330138/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	330138
LCSD 410-330138/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	330138

QC Association Summary

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

Job ID: 410-109302-1

LCMS

Analysis Batch: 331564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-109302-5 - RA	ACK-10-12132022	Total/NA	Water	EPA 537 (Mod)	330138
410-109302-5 - DL	ACK-10-12132022	Total/NA	Water	EPA 537 (Mod)	330138

Analysis Batch: 331684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-109302-11	ACK-08-12142022	Total/NA	Water	EPA 537 (Mod)	330409
MB 410-330409/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	330409
LCS 410-330409/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	330409
LCSD 410-330409/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	330409

Lab Chronicle

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

Job ID: 410-109302-1

Client Sample ID: LB-04-12122022
Lab Sample ID: 410-109302-1
Date Collected: 12/12/22 12:25
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329988	U5HI	ELLE	12/22/22 17:59
Total/NA	Analysis	EPA 537 (Mod)		1	330821	QD9Y	ELLE	12/28/22 13:34

Client Sample ID: LB-03-12122022
Lab Sample ID: 410-109302-2
Date Collected: 12/12/22 14:15
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329988	U5HI	ELLE	12/22/22 17:59
Total/NA	Analysis	EPA 537 (Mod)		1	330821	QD9Y	ELLE	12/28/22 13:45

Client Sample ID: ACK-15-12122022
Lab Sample ID: 410-109302-3
Date Collected: 12/12/22 15:45
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329988	U5HI	ELLE	12/22/22 17:59
Total/NA	Analysis	EPA 537 (Mod)		1	330821	QD9Y	ELLE	12/28/22 13:56

Client Sample ID: EB-12122022
Lab Sample ID: 410-109302-4
Date Collected: 12/12/22 16:10
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			329988	U5HI	ELLE	12/22/22 17:59
Total/NA	Analysis	EPA 537 (Mod)		1	330821	QD9Y	ELLE	12/28/22 14:07

Client Sample ID: ACK-10-12132022
Lab Sample ID: 410-109302-5
Date Collected: 12/13/22 08:35
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			330138	S7AC	ELLE	12/23/22 10:10
Total/NA	Analysis	EPA 537 (Mod)		1	331273	I5JH	ELLE	12/30/22 03:35
Total/NA	Prep	EPA 537 (mod)	RA		330138	S7AC	ELLE	12/23/22 10:10
Total/NA	Analysis	EPA 537 (Mod)	RA	1	331564	PY4D	ELLE	12/30/22 14:14
Total/NA	Prep	EPA 537 (mod)	DL		330138	S7AC	ELLE	12/23/22 10:10
Total/NA	Analysis	EPA 537 (Mod)	DL	10	331564	PY4D	ELLE	12/30/22 14:25

Client Sample ID: TACK-07-12132022
Lab Sample ID: 410-109302-6
Date Collected: 12/13/22 09:50
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			330138	S7AC	ELLE	12/23/22 10:10
Total/NA	Analysis	EPA 537 (Mod)		1	331273	I5JH	ELLE	12/30/22 03:46

Lab Chronicle

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

Job ID: 410-109302-1

Client Sample ID: ACK-09-12132022
Lab Sample ID: 410-109302-7
Date Collected: 12/13/22 11:10
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			330138	S7AC	ELLE	12/23/22 10:10
Total/NA	Analysis	EPA 537 (Mod)		1	331273	I5JH	ELLE	12/30/22 03:57

Client Sample ID: ACK-11-12132022
Lab Sample ID: 410-109302-8
Date Collected: 12/13/22 13:35
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			330138	S7AC	ELLE	12/23/22 10:10
Total/NA	Analysis	EPA 537 (Mod)		1	331273	I5JH	ELLE	12/30/22 04:19

Client Sample ID: FB-121322
Lab Sample ID: 410-109302-9
Date Collected: 12/13/22 13:50
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			330138	S7AC	ELLE	12/23/22 10:10
Total/NA	Analysis	EPA 537 (Mod)		1	331273	I5JH	ELLE	12/30/22 04:30

Client Sample ID: EB-121322
Lab Sample ID: 410-109302-10
Date Collected: 12/13/22 14:00
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			330138	S7AC	ELLE	12/23/22 10:10
Total/NA	Analysis	EPA 537 (Mod)		1	331273	I5JH	ELLE	12/30/22 04:41

Client Sample ID: ACK-08-12142022
Lab Sample ID: 410-109302-11
Date Collected: 12/14/22 09:25
Matrix: Water
Date Received: 12/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (mod)			330409	S7AC	ELLE	12/27/22 10:36
Total/NA	Analysis	EPA 537 (Mod)		1	331684	QD9Y	ELLE	12/31/22 07:05

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-109302-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	01-14-23

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	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
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

Method Summary

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

Job ID: 410-109302-1

Method	Method Description	Protocol	Laboratory
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

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

Job ID: 410-109302-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-109302-1	LB-04-12122022	Water	12/12/22 12:25	12/15/22 10:30
410-109302-2	LB-03-12122022	Water	12/12/22 14:15	12/15/22 10:30
410-109302-3	ACK-15-12122022	Water	12/12/22 15:45	12/15/22 10:30
410-109302-4	EB-12122022	Water	12/12/22 16:10	12/15/22 10:30
410-109302-5	ACK-10-12132022	Water	12/13/22 08:35	12/15/22 10:30
410-109302-6	TACK-07-12132022	Water	12/13/22 09:50	12/15/22 10:30
410-109302-7	ACK-09-12132022	Water	12/13/22 11:10	12/15/22 10:30
410-109302-8	ACK-11-12132022	Water	12/13/22 13:35	12/15/22 10:30
410-109302-9	FB-121322	Water	12/13/22 13:50	12/15/22 10:30
410-109302-10	EB-121322	Water	12/13/22 14:00	12/15/22 10:30
410-109302-11	ACK-08-12142022	Water	12/14/22 09:25	12/15/22 10:30

410-109302 Chain of Custody

vironme

Chain of Custody Record

eurofins | Environment Testing

Sampler: M. KENNEY / K SANTARPIO	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-70765-12335.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: Elizabeth.Zanar@et.eurofinsus.com	State of Origin: MA	Page: Page 1 of 1
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: NANTUCKET	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, Y - Trizma, 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)	PFAS 36	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
LB-04-12122022	12/12/22	1225	G	GW			X	2	
LB-03-12122022		1415							
ACK-15-12122022		1545							
EB-12122022		1610		W					0.75" BLADDER PUMP
ACK-10-12132022	12/13/22	0835		GW					
TACK-07-12132022		0950							
ACK-09-12132022		1110							
ACK-11-12132022		1335							
FB-121322		1350		W					M. KENNEY
EB-12132022		1400		W					1.5" BLADDER PUMP
ACK-08-12142022	12/14/22	0925		GW					

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: 12/14/22 1245	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: 12/15/22 1030	Company

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

Cooler Temperature(s) °C and Other Remarks: 0.5

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-109302-1

Login Number: 109302 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 1
Creator: Reiff, Nicole L

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.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

MassDEP Analytical Protocol Certfication Form

Laboratory Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Project #:	410-109302-1
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:** 01/10/2023

APPENDIX C

SOIL BORING LOGS

GEOPROBE NOR-14R

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/11/22 **COMPLETED** 11/14/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Dual Tube/ Macro-core
▽ **AT TIME OF DRILLING** 55.0
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
			SW		SAND- brownish orange, fine to medium grained, little silt, moist, no odor		
	36	0			SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt, no odor		
5						NOR-14-S-04-06	
			SW				
	50	0				NOR-14-S-06-08	
10						NOR-14-S-08-10	
					NO RECOVERY		
	0	0					
15							
			SW		SAND- light brown, fine to coarse grained, little fine grained gravel, trace silt, no odor		
			SW		SAND- brown, fine to medium grained, trace fine grained gravel, trace silt, no odor		
	48	0				NOR-14-S-15-20	
			SW		SAND- light brown, fine to coarse grained, some fine grained gravel, trace silt, no odor		
20							
					SAND- light brown, fine to coarse grained, trace silt, dry, no odor		
	32	0	SW				
25						NOR-14-S-20-30	
					SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt		
	27	0	SW				
30							

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

(Continued Next Page)

GEOPROBE NOR-14R

CLIENT NANTUCKET MEMORIAL AIRPORT **PROJECT NAME** NANTUCKET MEMORIAL AIRPORT- ACK

PROJECT NUMBER 15295.007.001 **PROJECT LOCATION** NANTUCKET, MASSACHUSETTS

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
30							
35	14	0				NOR-14-S-30-40	
40	26	0	SW				
45	22	0				NOR-14-S-40-50	
50	31	0	SW		SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt, moist		
55	0				NO RECOVERY		
60	0				NO RECOVERY- liner wet		
					End of boring at 60.0 ft. bgs.		

GEOPROBE NOR-15R

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/14/22 **COMPLETED** 11/14/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Dual Tube
▽ **AT TIME OF DRILLING** 51.0
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
			SW		SAND- brown, fine to medium grained, little silt, moist, no odor		
	43	0			SAND- brown, fine to medium grained, trace fine grained gravel, trace silt, no odor		
			SW				
5						NOR-15-S-04-06	
					SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt, no odor		
	46	0	SW			NOR-15-S-06-08	
10						NOR-15-S-08-10	
					NO RECOVERY		
	0	0					
15							
			SW		SAND- light brown, fine to coarse grained, little fine grained gravel, trace silt, no odor		
			SW		SAND- light brown to dark brown, fine to medium grained, little silt, trace fine grained gravel, no odor		
	38	0			SAND- light brown, fine to coarse grained, little fine grained gravel, trace silt	NOR-15-S-15-20	
20							
	34	0	SW				
25						NOR-15-S-20-30	
					Iron staining		
	23	0	SW				
30			SW		Iron staining		

(Continued Next Page)

CLIENT NANTUCKET MEMORIAL AIRPORT **PROJECT NAME** NANTUCKET MEMORIAL AIRPORT- ACK

PROJECT NUMBER 15295.007.001 **PROJECT LOCATION** NANTUCKET, MASSACHUSETTS

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
30					SAND- light brown, fine to coarse grained, little fine grained gravel, trace silt		
35	28	0				NOR-15-S-30-40	
40	27	0	SW				
45	19	0				NOR-15-S-40-50	
50	23	0					
			SW		Moist		
					Wet		
	22	0	SW			NOR-15-S-50-55	
55			SW		Saturated		
					End of boring at 55.0 ft. bgs.		

GEOPROBE NOR-17

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/14/22 **COMPLETED** 11/14/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0					ASPHALT		
		0.2	SW		SAND- grayish brown, fine to coarse grained, little silt, little fine grained gravel, no odor	NOR-17-S-00-01	
1							
		0			SAND- orangish brown, fine grained, some silt, trace fine grained gravel, no odor	NOR-17-S-01-02	
2			SW				
	52	0					
3					SAND- brown, fine to coarse grained, little fine grained gravel, little silt, no odor		
		0				NOR-17-S-03-04	DUP Collected
4			SW				
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE NOR-18

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/11/22 **COMPLETED** 11/11/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0			SAND- orangish brown, fine grained, little silt, moist, no odor	NOR-18-S-00-01	
1			SW				
					SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt, moist, no odor		
		0				NOR-18-S-01-02	
2							
			SW				
	44	0					
3							
					SAND- orangish brown, fine grained, trace silt, moist, no odor		
		0				NOR-18-S-03-04	
4							
			SW				
		0					
5							

End of boring at 5.0 ft. bgs.

GEOPROBE NOR-19

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/11/22 **COMPLETED** 11/11/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0			SAND- orangish brown, fine to medium grained, little silt, moist, no odor	NOR-19-S-00-01	
1			SW				
		0				NOR-19-S-01-02	DUP Collected
2					SAND- light orangish brown, fine to coarse grained, little gravel, trace silt, moist, no odor		
	52	0					
3							
		0	SW			NOR-19-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE RW15-33

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/10/22 **COMPLETED** 11/10/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0	SW		SAND- dark brown, fine to medium grained, little silt, trace fine grained gravel, no odor	RW15-33-S-00-01	
1							
			SW		SAND- orangish brown, fine to medium grained, little silt, trace fine grained gravel, no odor		
		0				RW15-33-S-01-02	
2							
	53	0			SAND- light brown, fine to coarse grained, trace silt, trace fine grained gravel, no odor		
3							
			SW				
		0				RW15-33-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

GEOPROBE RW15-34

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/10/22 **COMPLETED** 11/10/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0							
1	54	0	PT		TOPSOIL	RW15-34-S-00-01	
2		0	SW		SAND- orangish brown, fine to medium grained, little silt, trace fine grained gravel, no odor	RW15-34-S-01-02	
3		0			SAND- light brown, fine to coarse grained, trace silt, trace fine grained, gravel		
4		0	SW			RW15-34-S-03-04	
5		0					

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE RW15-35

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/10/22 **COMPLETED** 11/10/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0							
1	52	0	PT		TOPSOIL	RW15-35-S-00-01	
2		0	SW		SAND- orangish brown, fine to medium grained, little silt, trace fine grained gravel, no odor	RW15-35-S-01-02	
3		0			SAND- light brown, fine to coarse grained, trace silt, trace fine grained, gravel, no odor		
4		0	SW			RW15-35-S-03-04	
5		0					

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE RW15-36

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/10/22 **COMPLETED** 11/10/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0							
1	60	0	PT		TOPSOIL	RW15-36-S-00-01	
2		0	SW		SAND- orangish brown, fine to medium grained, little silt, trace fine grained gravel, no odor	RW15-36-S-01-02	
3		0			SAND- light brown, fine to coarse grained, little fine grained gravel, trace silt, no odor		
4		0	SW			RW15-36-S-03-04	
5		0					

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE RW15-37

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/9/22 **COMPLETED** 11/9/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0			SAND- brown, fine to medium grained, little silt, trace fine grained gravel, moist, no odor	RW15-37-S-00-01	
1			SW				
		0				RW15-37-S-01-02	
2			SW		SAND- dark brown, fine to medium grained, some silt, trace fine grained gravel, moist, no odor		
	54	0			SAND- brown, fine to medium grained, trace silt, moist, no odor		
3			SW				
		0				RW15-37-S-03-04	
4							
		0	SW		SAND- light brown, fine to medium grained, trace silt, no odor		
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE RW15-38

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/9/22 **COMPLETED** 11/9/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0			SAND- brown, fine to medium grained, some silt, trace fine grained gravel, no odor	RW15-38-S-00-01	
1			SW				
		0			SAND- light brown, fine to coarse grained, little fine grained gravel, trace silt, no odor	RW15-38-S-01-02	
2							
	53	0					
3			SW				
		0				RW15-38-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE RW15-39

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/9/22 **COMPLETED** 11/9/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0	SW		SAND- brown, fine to medium grained, some silt, trace fine grained gravel, no odor	RW15-39-S-00-01	DUP Collected
1							
					SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt, no odor		
		0				RW15-39-S-01-02	
2							
	55	0					
3			SW				
		0				RW15-39-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

GEOPROBE RW15-40

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/9/22 **COMPLETED** 11/9/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0							
		0	PT		TOPSOIL	RW15-40-S-00-01	
1			SW		SAND- brown, fine to coarse grained, some silt, trace fine grained gravel, moist, no odor		
		0				RW15-40-S-01-02	
2					SAND- light brown, fine to coarse grained, little fine grained gravel, trace silt, no odor		
	58	0					
3							
		0	SW			RW15-40-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-8

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0							
		0	SW		SAND- dark brown, fine to coarse grained, some fine grained gravel, trace silt, slight petroleum odor	SL-08-S-00-01	
1							
					SAND- tan, fine to coarse grained, trace silt, no odor		
		0				SL-08-S-01-02	
2							
			SW				
	46	0					
3							
		0			SAND- gray, fine to coarse grained, no odor	SL-08-S-03-04	
4			SW				
		0			SAND- dark brown, fine to medium grained, little silt, wet, no odor		
			SW				
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-9

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0					SAND- brown, fine to medium grained, trace silt, moist		
		0	SW			SL-09-S-00-01	DUP Collected
1					SAND- dark gray, fine to medium grained, trace silt, moist, no odor		
		0	SW			SL-09-S-01-02	
2					SAND- light brown, fine to coarse grained, little fine grained gravel, trace silt, no odor		
	50	0					
3							
		0	SW			SL-09-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

GEOPROBE SL-10

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0					SAND- brown, fine to medium grained, some fine grained gravel, trace silt, no odor		
			SW				
		0			SAND- orangish brown, fine grained, trace coarse sand, trace fine grained gravel, little silt	SL-10-S-00-01	
1							
		0				SL-10-S-01-02	
			SW				
2							
	60	0					
					SAND- brown and gray, fine to medium grained, little fine grained gravel, little silt, no odor		
3							
		0				SL-10-S-03-04	
			SW				
4							
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-11

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/2/22 **COMPLETED** 11/2/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0			SAND- brown, fine to medium grained, little silt, trace fine grained gravel, moist, no odor	SL-11-S-00-01	
1			SW				
		0				SL-11-S-01-02	
2					SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt, no odor		
	46	0					
3							
		0	SW			SL-11-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

GEOPROBE SL-12

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/1/22 **COMPLETED** 11/1/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0					SAND- gray, fine to coarse grained, trace silt, wet, no odor		
		0	SW			SL-12-S-00-01	
1					SAND- brown, fine to medium grained, little silt, trace fine gravel, moist, no odor		
		0				SL-12-S-01-02	
2			SW				
	55	0					
3					SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt, no odor		
		0				SL-12-S-03-04	
4			SW				
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-13

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/2/22 **COMPLETED** 11/2/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0			SAND- brown, fine to medium grained, some silt, moist, no odor	SL-13-S-00-01	
1			SW				
		0			SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt, moist, no odor	SL-13-S-01-02	
2							
	50	0					
3			SW				
		0				SL-13-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-14

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/1/22 **COMPLETED** 11/1/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0					SAND- brown, fine to medium grained, little silt, wet, no odor		
			SW				
		0			SAND- brown, fine grained, little silt, wet, no odor	SL-14-S-00-01	
			SW				
1					SAND- brown, fine to medium grained, trace fine grained gravel, trace silt, no odor		
		0				SL-14-S-01-02	
2							
	48	0					
3			SW				
		0				SL-14-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-15

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/1/22 **COMPLETED** 11/1/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			SWG		GRAVELLY SAND- dark brown and gray, no odor		
		0	SW		SAND- brownish orange, fine grained, little silt, moist, no odor	SL-15-S-00-01	
1					SAND- brown, fine to medium grained, little fine grained gravel, trace silt, no odor		
		0	SW			SL-15-S-01-02	
2					SAND- brownish orange, fine grained, little silt, no odor		
	55	0	SW				
3					SAND- light brown, fine to medium grained, trace fine grained gravel, trace silt, no odor		
			SW				
		0			SAND- light to dark brown, fine to medium, trace silt, no odor	SL-15-S-03-04	
4			SW				
		0			SAND- brown, fine grained, little silt, moist, no odor		
5			SW				

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-16

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/2/22 **COMPLETED** 11/2/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0	SW		SAND- brown, fine to medium grained, little silt, trace fine grained gravel, moist, no odor	SL-16-S-00-01	
1							
		0				SL-16-S-01-02	
2					SAND- light brown, fine to coarse grained, trace fine to coarse grained gravel, trace silt, moist, no odor		
	57	0					
3							
		0	SW			SL-16-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-17

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/1/22 **COMPLETED** 11/1/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES Heavy mist during sample logging, could not PID

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			SW		SAND- light brown, fine to coarse grained, trace silt, wet, no odor		
					ASPHALT		
		0	SW		SAND- black, fine to medium grained, little silt, moist, no odor	SL-17-S-00-01	
1					SAND- light brown, fine to medium grained, little silt, no odor		
						SL-17-S-01-02	
2			SW				
	57				SAND- dark brown, fine to medium grained, some silt, moist, no odor		
3						SL-17-S-03-04	
4			SW				Heavy mist during sample logging, could not PID
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-18

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/1/22 **COMPLETED** 11/1/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES Heavy mist during sample logging, could not PID

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			GW		GRAVEL- saturated		
		0				SL-18-S-00-01	
			SW		SAND- dark brown, fine grained, some silt, trace fine gravel, wood pieces (fill), wet		
1							
					SAND- dark brown, fine grained, some fine grained gravel, little silt, moist, no odor		
		0				SL-18-S-01-02	
2			SW				
	48	0					
3					SAND- light brown, fine to medium grained, trace silt, moist, no odor		
		0				SL-18-S-03-04	
4			SW				
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE SL-19

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/2/22 **COMPLETED** 11/2/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0					SAND- dark brown, fine to medium grained, little fine grained gravel, little silt, moist, no odor		
1		0	SW			SL-19-S-00-01	
2		0			SAND- grayish brown, fine to medium grained, some fine grained gravel, little silt, moist, no odor	SL-19-S-01-02	
3	50	0	SW		SAND- brown, fine to medium grained, trace fine grained gravel, trace silt		
4		0	SW		SAND- light brown, fine to coarse grained, trace silt, trace fine grained gravel, no odor	SL-19-S-03-04	
5		0	SW				

End of boring at 5.0 ft. bgs.

GEOPROBE SL-20

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 11/2/22 **COMPLETED** 11/2/22
GROUND ELEVATION* **HOLE SIZE** 2"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Geoprobe Macro-core
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0					SAND- black, fine to coarse grained, some fine grained gravel, trace silt, no odor		
		0	SW			SL-20-S-00-01	
1					SAND- brown, fine to medium grained, trace silt, moist, no odor		
			SW				
		0			SAND- light brown, fine to coarse grained, trace silt, trace fine grained gravel, moist, no odor	SL-20-S-01-02	
2							
	52	0					
3							
			SW				
		0				SL-20-S-03-04	
4							
		0					
5							

End of boring at 5.0 ft. bgs.

5- GEOTECH GP_ACK ACK NANTUCKET, MA.GPJ 5- GEOTECH GP_ACK 2/8/23

GEOPROBE WL-14

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 3.25"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Hand Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0			SAND- dark brown, fine to medium grained, little silt, little fine grained gravel, no odor	WL-14-S-00-01	
1			SW				
		0				WL-14-S-01-02	
2	48		SW		SAND- orangish brown, fine to medium grained, some gravel, trace silt, no odor		
					SAND- orangish brown, fine to medium grained, trace silt, no odor		
		0	SW				
3					SAND- light brown, fine to medium grained, trace silt, trace fine grained gravel, no odor		
			SW				
		0				WL-14-S-03-04	
4							
					End of boring at 4.0 ft. bgs.		

GEOPROBE WL-15

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 3.25"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Hand Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0				WL-15-S-00-01	
1			SW		SAND- dark orangish brown, fine grained, little silt, little fine grained gravel, no odor		
		0				WL-15-S-01-02	
2	48		SWG		GRAVELLY SAND- brown, trace silt, no odor		
		0					
3			SW		SAND- brown to light brown, fine to medium grained, little fine grained gravel, trace silt, no odor		
		0				WL-15-S-03-04	
4					End of boring at 4.0 ft. bgs.		

GEOPROBE WL-16

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 3.25"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Hand Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0				WL-16-S-00-01	
1			SW		SAND- dark brown, fine grained, little fine grained gravel, little silt, no odor		
		0				WL-16-S-01-02	
2	48						
		0	SWG		GRAVELLY SAND- brown, trace silt, no odor		
3							
		0				WL-16-S-03-04	
4			SW		SAND- light brown, fine to coarse grained, trace silt, no odor		
					End of boring at 4.0 ft. bgs.		

GEOPROBE WL-17

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 3.25"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Hand Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
1	48	0	SW		SAND- dark orangish brown, fine grained, little silt, little fine grained gravel, no odor	WL-17-S-00-01	
2		0	SW		GRAVELLY SAND- brown, trace silt, no odor	WL-17-S-01-02	DUP Collected
3		0	SW		SAND- light brown, fine to coarse grained, trace silt, no odor	WL-17-S-03-04	
4					End of boring at 4.0 ft. bgs.		

GEOPROBE WL-18

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 3.25"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Hand Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
1	48	0	SW		SAND- dark brown, fine grained, little silt, wet, no odor	WL-18-S-00-01	
2		0	SWG		SANDY GRAVEL- light grayish brown, wet, no odor	WL-18-S-01-02	
3		0	SW		SAND- orange, fine to coarse grained, some fine to coarse grained gravel, trace silt, no odor		
4		0				WL-18-S-03-04	
					End of boring at 4.0 ft. bgs.		

GEOPROBE WL-19

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 3.25"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Hand Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0			SAND- brown, fine to medium grained, little silt, trace fine gravel, no odor	WL-19-S-00-01	
1			SW				
		0				WL-19-S-01-02	
2	48				SAND- brown, fine to medium grained, little fine grained gravel, trace silt, no odor		
			SW				
		0			SAND- light brown, fine to coarse grained, trace fine grained gravel, trace silt, no odor		
3							
			SW				
		0				WL-19-S-03-04	DUP Collected
4							
					End of boring at 4.0 ft. bgs.		

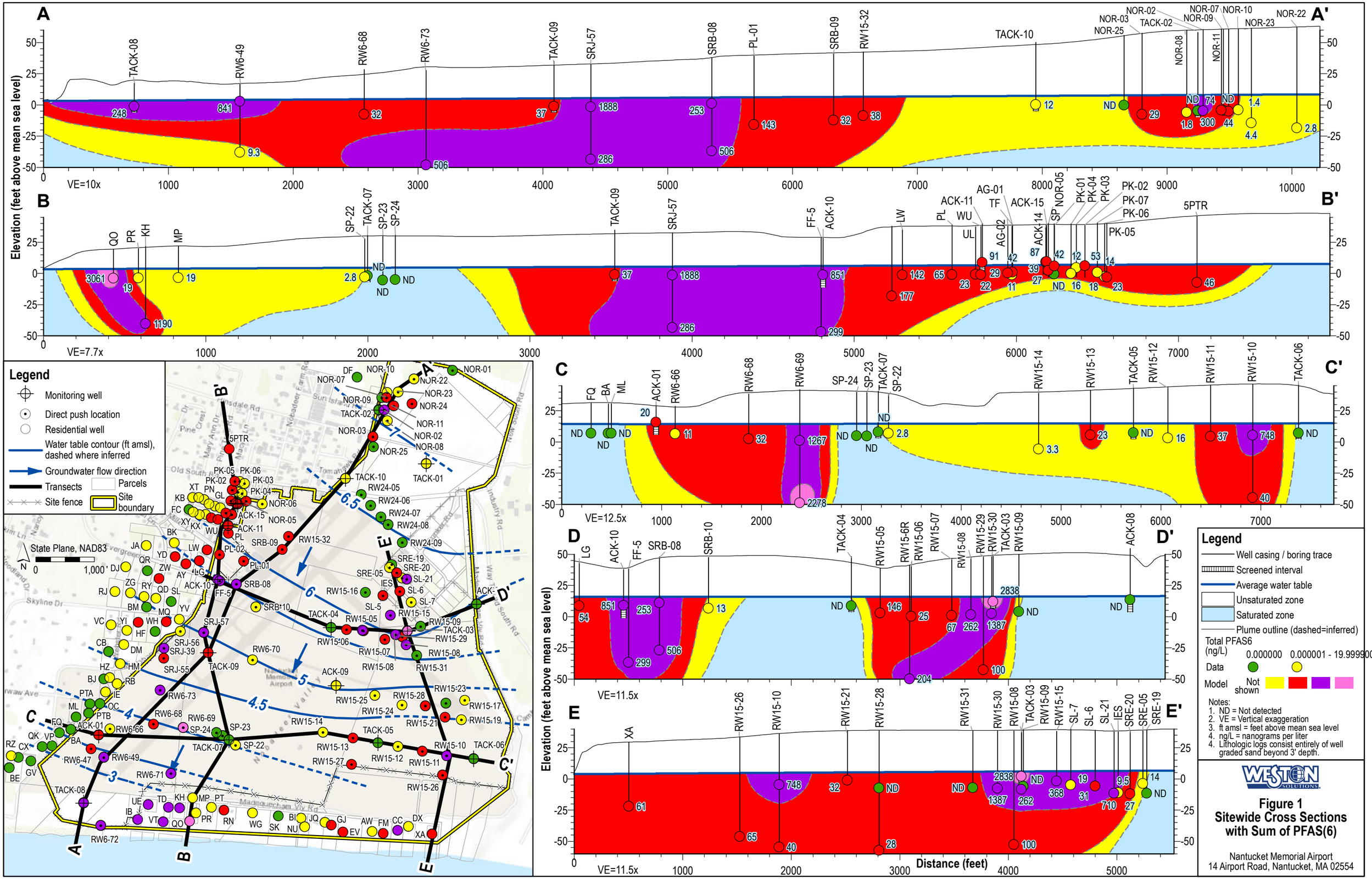
GEOPROBE WL-20

CLIENT NANTUCKET MEMORIAL AIRPORT
PROJECT NAME NANTUCKET MEMORIAL AIRPORT- ACK
PROJECT NUMBER 15295.007.001
PROJECT LOCATION NANTUCKET, MASSACHUSETTS
DATE STARTED 10/31/22 **COMPLETED** 10/31/22
GROUND ELEVATION* **HOLE SIZE** 3.25"
CONTRACTOR NAME Drilex Environmental
GROUND WATER LEVEL (FT BGS):
EQUIPMENT TYPE AND METHOD Hand Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY M. Kenney **CHECKED BY** M. Kenney
NOTES

DEPTH (ft)	RECOVERY (in)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	COMMENTS
0			PT		TOPSOIL		
		0	SW		SAND- brown, fine grained, no odor	WL-20-S-00-01	
1							
					SAND- brown, fine to medium grained, little silt, trace fine grained gravel, no odor		
		0	SW			WL-20-S-01-02	
2	48						
			SW		SAND- brown, fine to medium grained, some gravel, trace silt, no odor		
		0			SAND- orangish brown, fine to coarse grained, little trace gravel, trace silt		
3							
			SW				
		0				WL-20-S-03-04	
4							
					End of boring at 4.0 ft. bgs.		

APPENDIX D

HYDROGEOLOGIC CROSS SECTIONS


A
A'
B
B'
C
C'
D
D'
E
E'
Elevation (feet above mean sea level)
VE=10x
VE=7.7x
VE=12.5x
VE=11.5x
Distance (feet)
TACK-08
RW6-49
RW6-68
RW6-73
TACK-09
SRJ-57
SRB-08
PL-01
SRB-09
RW15-32
TACK-10
NOR-03
NOR-25
NOR-02
TACK-02
NOR-09
NOR-08
NOR-07
NOR-10
NOR-11
NOR-23
NOR-22
248
841
9.3
32
37
506
1888
286
253
506
143
32
38
12
ND
29
ND
74
ND
1.4
1.8
300
44
4.4
2.8
QO
PR
KH
MP
SP-22
TACK-07
SP-23
SP-24
FF-5
ACK-10
LW
PL
WU
UL
ACK-11
TF
AG-01
AG-02
ACK-15
ACK-14
SP
NOR-05
PK-01
PK-04
PK-03
PK-02
PK-07
PK-06
PK-05
5PTR
3061
19
19
1190
2.8
ND
ND
ND
37
1888
286
851
299
142
177
65
23
91
29
22
42
11
87
39
27
42
ND
12
16
53
18
14
23
46
FQ
BA
ML
ACK-01
RW6-66
RW6-68
RW6-69
SP-24
SP-23
TACK-07
SP-22
RW15-14
RW15-13
TACK-05
RW15-12
RW15-11
RW15-10
TACK-06
20
11
32
1267
2278
ND
ND
ND
ND
ND
2.8
3.3
23
ND
16
37
748
ND
40
LG
ACK-10
FF-5
SRB-08
SRB-10
TACK-04
RW15-05
RW15-6R
RW15-06
RW15-07
RW15-08
RW15-29
RW15-30
TACK-03
RW15-09
ACK-08
54
851
253
299
506
13
ND
146
25
204
67
262
2838
1387
100
ND
ND
XA
RW15-26
RW15-10
RW15-21
RW15-28
RW15-31
RW15-30
RW15-08
TACK-03
RW15-09
RW15-15
SL-7
SL-6
SL-21
IES
SRE-20
SRE-05
SRE-19
61
748
65
40
32
28
ND
ND
2838
1387
ND
262
19
368
31
9.5
710
27
14
ND
100
DF
NOR-10
NOR-07
NOR-01
NOR-22
NOR-23
NOR-24
NOR-09
TACK-02
NOR-11
NOR-03
NOR-02
NOR-08
NOR-25
5PTR
TACK-01
TACK-10
RW24-05
RW24-06
RW24-07
RW24-08
RW24-09
PK-05
PK-06
PK-02
PK-03
PK-04
NOR-06
NOR-05
ACK-15
ACK-11
PL-02
PL-01
SRB-09
RW15-32
SRE-19
SRE-20
SRE-05
SL-21
SL-6
SL-7
IES
RW15-16
SL-5
RW15-15
RW15-09
TACK-03
RW15-29
RW15-08
RW15-31
RW15-23
RW15-17
RW15-19
RW15-28
RW15-24
RW15-21
RW15-14
TACK-05
RW15-13
RW15-10
TACK-06
RW15-27
RW15-12
RW15-11
RW15-26
SRE-05
SRE-19
SRE-20
SRJ-57
SRJ-56
SRJ-39
SRJ-55
TACK-09
RW6-70
ACK-09
RW6-73
RW6-68
RW6-69
SP-24
SP-23
TACK-07
SP-22
RW6-66
RW6-49
RW6-47
RW6-71
RW6-72
TACK-08
ACK-01
ACK-10
FF-5
SRB-08
SRB-10
TACK-04
RW15-05
RW15-06
RW15-09
TACK-03
RW15-29
RW15-08
RW15-31
RW15-07
RW15-25
RW15-24
RW15-14
TACK-05
RW15-13
RW15-10
TACK-06
RW15-27
RW15-12
RW15-11
RW15-26
6.5
7
6
5
4.5
4
3
State Plane, NAD83
N
0
1,000'
Legend
Monitoring well
Direct push location
Residential well
Water table contour (ft amsl), dashed where inferred
Groundwater flow direction
Transects
Parcels
Site fence
Site boundary
Well casing / boring trace
Screened interval
Average water table
Unsaturated zone
Saturated zone
Plume outline (dashed=inferred)
Total PFAS6 (ng/L)
0.000000
0.000001 - 19.999900
Data
Model
Not shown
Notes:
1. ND = Not detected
2. VE = Vertical exaggeration
3. ft amsl = feet above mean sea level
4. ng/L = nanograms per liter
4. Lithologic logs consist entirely of well graded sand beyond 3' depth.
WESTON SOLUTIONS
Figure 1
Sitewide Cross Sections with Sum of PFAS(6)
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554