

ANALYTICAL REPORT

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Laboratory Job ID: 410-8785-1
Client Project/Site: Anvil/ PFAS Testing

For:
PEER
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Attn: Tim Whitehouse



Authorized for release by:
8/27/2020 12:15:13 PM

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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 data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. 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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A handwritten signature in blue ink that reads "Mary Kate Izzo".

Mary Kate Izzo
Project Manager
8/27/2020 12:15:13 PM



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Isotope Dilution Summary	12
QC Sample Results	14
QC Association Summary	19
Lab Chronicle	20
Certification Summary	21
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

Definitions/Glossary

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance limits.
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.
α	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: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Job ID: 410-8785-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-8785-1

Receipt

The samples were received on 7/25/2020 2:25 PM; 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

HPLC/IC

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

LCMS

Method PFC_IDA: The recovery for the labeled isotope(s) is outside the QC acceptance limits as noted on the QC Summary for sample: 1 Tap Water (410-8785-1). Sufficient sample was not available to re-extract this sample.

Method PFC_IDA: The sample injection internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection of samples: 2 Anvil 10X10 (410-8785-2) and 3 Anvil 10X10 (410-8785-3). The values here are from the initial injection of the samples. The recovery for labeled isotopes is outside of QC acceptance limits for samples 2 Anvil 10X10 (410-8785-2) and 3 Anvil 10X10 (410-8785-3) as noted on the QC Summary due to the matrix of the sample.

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



Detection Summary

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Client Sample ID: 1 Tap Water

Lab Sample ID: 410-8785-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	9.1		1.8	0.45	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	3.0		1.8	0.45	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	5.1		1.8	0.45	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	1.1	J	1.8	0.45	ng/L	1		537 IDA	Total/NA
Perfluorodecanoic acid	0.55	J	1.8	0.45	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	3.2		1.8	0.45	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	3.7		1.8	0.45	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	6.5		1.8	0.45	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonamide	2.8		1.8	0.45	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	5.7		4.5	1.8	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	8.6		1.8	0.45	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2 Anvil 10X10

Lab Sample ID: 410-8785-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	250	J	1000	250	ng/L	1		537 IDA	Total/NA
HFPODA	410	J	1500	250	ng/L	1		537 IDA	Total/NA

Client Sample ID: 3 Anvil 10X10

Lab Sample ID: 410-8785-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPODA	500	J	1500	250	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Client Sample ID: 1 Tap Water

Lab Sample ID: 410-8785-1

Date Collected: 07/25/20 11:00

Matrix: Water

Date Received: 07/25/20 14:25

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	9.1		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluoroheptanoic acid	3.0		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorooctanoic acid	5.1		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorononanoic acid	1.1	J	1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorodecanoic acid	0.55	J	1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorobutanesulfonic acid	3.2		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorohexanesulfonic acid	3.7		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorooctanesulfonic acid	6.5		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
NEtFOSAA	ND		2.7	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
NMeFOSAA	ND		1.8	0.54	ng/L		07/27/20 15:21	08/03/20 23:49	1
10:2 FTS	ND		4.5	0.90	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluoropentanesulfonic acid	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluoroheptanesulfonic acid	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorononanesulfonic acid	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorodecanesulfonic acid	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.7	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorooctanesulfonamide	2.8		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorohexadecanoic acid	ND		2.7	0.90	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorooctadecanoic acid	ND		2.7	0.90	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorobutanoic acid	5.7		4.5	1.8	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluoropentanoic acid	8.6		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
NMeFOSE	ND		2.7	0.90	ng/L		07/27/20 15:21	08/03/20 23:49	1
NMeFOSA	ND		2.7	0.90	ng/L		07/27/20 15:21	08/03/20 23:49	1
NEtFOSE	ND		2.7	0.90	ng/L		07/27/20 15:21	08/03/20 23:49	1
NEtFOSA	ND		4.5	0.90	ng/L		07/27/20 15:21	08/03/20 23:49	1
HFPODA	ND		2.7	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
DONA	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
9Cl-PF3ONS	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
11Cl-PF3OUdS	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		07/27/20 15:21	08/03/20 23:49	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	1.8	ng/L		07/27/20 15:21	08/03/20 23:49	1
8:2 Fluorotelomer sulfonic acid	ND		2.7	0.90	ng/L		07/27/20 15:21	08/03/20 23:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	143		22 - 169	07/27/20 15:21	08/03/20 23:49	1
M2-8:2 FTS	130		37 - 169	07/27/20 15:21	08/03/20 23:49	1
M2-6:2 FTS	144		29 - 182	07/27/20 15:21	08/03/20 23:49	1
13C5 PFHxA	77		36 - 137	07/27/20 15:21	08/03/20 23:49	1
13C4 PFHpA	82		33 - 140	07/27/20 15:21	08/03/20 23:49	1
13C8 PFOA	85		52 - 124	07/27/20 15:21	08/03/20 23:49	1
13C9 PFNA	87		48 - 130	07/27/20 15:21	08/03/20 23:49	1
13C6 PFDA	82		50 - 124	07/27/20 15:21	08/03/20 23:49	1
13C7 PFUnA	80		44 - 128	07/27/20 15:21	08/03/20 23:49	1
13C2-PFDoDA	75		36 - 127	07/27/20 15:21	08/03/20 23:49	1
13C2 PFTeDA	76		21 - 134	07/27/20 15:21	08/03/20 23:49	1

Client Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Client Sample ID: 1 Tap Water

Date Collected: 07/25/20 11:00

Date Received: 07/25/20 14:25

Lab Sample ID: 410-8785-1

Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	98		23 - 175	07/27/20 15:21	08/03/20 23:49	1
13C3 PFHxS	86		35 - 143	07/27/20 15:21	08/03/20 23:49	1
13C8 PFOS	80		52 - 121	07/27/20 15:21	08/03/20 23:49	1
d3-NMeFOSAA	89		36 - 143	07/27/20 15:21	08/03/20 23:49	1
d5-NEtFOSAA	96		42 - 149	07/27/20 15:21	08/03/20 23:49	1
13C8 FOSA	61		10 - 134	07/27/20 15:21	08/03/20 23:49	1
13C4 PFBA	84		43 - 130	07/27/20 15:21	08/03/20 23:49	1
13C5 PFPeA	90		38 - 150	07/27/20 15:21	08/03/20 23:49	1
d7-N-MeFOSE-M	43		10 - 137	07/27/20 15:21	08/03/20 23:49	1
d3-NMePFOSA	8 *5		10 - 107	07/27/20 15:21	08/03/20 23:49	1
d9-N-EtFOSE-M	41		10 - 135	07/27/20 15:21	08/03/20 23:49	1
d5-NEtPFOSA	7 *5		10 - 107	07/27/20 15:21	08/03/20 23:49	1
13C3 HFPO-DA	101		24 - 147	07/27/20 15:21	08/03/20 23:49	1

Client Sample ID: 2 Anvil 10X10

Date Collected: 07/25/20 11:00

Date Received: 07/25/20 14:25

Lab Sample ID: 410-8785-2

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		50	25	mg/L			08/06/20 21:59	500

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluoroheptanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorooctanoic acid	250	J	1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorononanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorodecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorotridecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorotetradecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorobutanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorohexanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorooctanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
NEtFOSAA	ND		1500	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
NMeFOSAA	ND		1000	300	ng/L		08/07/20 08:18	08/12/20 17:44	1
10:2 FTS	ND		2500	500	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluoropentanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluoroheptanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorononanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorodecanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorooctanesulfonamide	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorohexadecanoic acid	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorooctadecanoic acid	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorobutanoic acid	ND		2500	1000	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluoropentanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
NMeFOSE	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:44	1
NMeFOSA	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:44	1

Client Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Client Sample ID: 2 Anvil 10X10

Lab Sample ID: 410-8785-2

Date Collected: 07/25/20 11:00

Matrix: Water

Date Received: 07/25/20 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSE	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:44	1
NEtFOSA	ND		2500	500	ng/L		08/07/20 08:18	08/12/20 17:44	1
HFPODA	410	J	1500	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
DONA	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
9CI-PF3ONS	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
11CI-PF3OUdS	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluorododecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
4:2 Fluorotelomer sulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
Perfluoroundecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:44	1
6:2 Fluorotelomer sulfonic acid	ND		2500	1000	ng/L		08/07/20 08:18	08/12/20 17:44	1
8:2 Fluorotelomer sulfonic acid	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	110		20 - 187	08/07/20 08:18	08/12/20 17:44	1
M2-8:2 FTS	284	*5	34 - 182	08/07/20 08:18	08/12/20 17:44	1
M2-6:2 FTS	374	*5	29 - 189	08/07/20 08:18	08/12/20 17:44	1
13C5 PFHxA	71		31 - 142	08/07/20 08:18	08/12/20 17:44	1
13C4 PFHpA	96		30 - 144	08/07/20 08:18	08/12/20 17:44	1
13C8 PFOA	85		49 - 127	08/07/20 08:18	08/12/20 17:44	1
13C9 PFNA	124		47 - 136	08/07/20 08:18	08/12/20 17:44	1
13C6 PFDA	90		47 - 128	08/07/20 08:18	08/12/20 17:44	1
13C7 PFUnA	85		40 - 135	08/07/20 08:18	08/12/20 17:44	1
13C2-PFDoDA	30		28 - 136	08/07/20 08:18	08/12/20 17:44	1
13C2 PFTeDA	59		10 - 144	08/07/20 08:18	08/12/20 17:44	1
13C3 PFBS	99		19 - 178	08/07/20 08:18	08/12/20 17:44	1
13C3 PFHxS	72		32 - 145	08/07/20 08:18	08/12/20 17:44	1
13C8 PFOS	80		49 - 126	08/07/20 08:18	08/12/20 17:44	1
d3-NMeFOSAA	128		32 - 151	08/07/20 08:18	08/12/20 17:44	1
d5-NEtFOSAA	139		37 - 164	08/07/20 08:18	08/12/20 17:44	1
13C8 FOSA	66		10 - 143	08/07/20 08:18	08/12/20 17:44	1
13C4 PFBA	87		41 - 132	08/07/20 08:18	08/12/20 17:44	1
13C5 PFPeA	95		33 - 155	08/07/20 08:18	08/12/20 17:44	1
d7-N-MeFOSE-M	81		10 - 143	08/07/20 08:18	08/12/20 17:44	1
d3-NMePFOSA	63		10 - 107	08/07/20 08:18	08/12/20 17:44	1
d9-N-EtFOSE-M	134		10 - 142	08/07/20 08:18	08/12/20 17:44	1
d5-NEtPFOSA	69		10 - 108	08/07/20 08:18	08/12/20 17:44	1
13C3 HFPO-DA	73		20 - 153	08/07/20 08:18	08/12/20 17:44	1

Client Sample ID: 3 Anvil 10X10

Lab Sample ID: 410-8785-3

Date Collected: 07/25/20 11:00

Matrix: Water

Date Received: 07/25/20 14:25

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		50	25	mg/L			08/06/20 21:42	500

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluoroheptanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorooctanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Client Sample ID: 3 Anvil 10X10

Lab Sample ID: 410-8785-3

Date Collected: 07/25/20 11:00

Matrix: Water

Date Received: 07/25/20 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorodecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorotridecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorotetradecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorobutanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorohexanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorooctanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
NEtFOSAA	ND		1500	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
NMeFOSAA	ND		1000	300	ng/L		08/07/20 08:18	08/12/20 17:54	1
10:2 FTS	ND		2500	500	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluoropentanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluoroheptanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorononanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorodecanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorooctanesulfonamide	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorohexadecanoic acid	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorooctadecanoic acid	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorobutanoic acid	ND		2500	1000	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluoropentanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
NMeFOSE	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:54	1
NMeFOSA	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:54	1
NEtFOSE	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:54	1
NEtFOSA	ND		2500	500	ng/L		08/07/20 08:18	08/12/20 17:54	1
HFPODA	500	J	1500	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
DONA	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
9Cl-PF3ONS	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
11Cl-PF3OUdS	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluorododecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
4:2 Fluorotelomer sulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
Perfluoroundecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:54	1
6:2 Fluorotelomer sulfonic acid	ND		2500	1000	ng/L		08/07/20 08:18	08/12/20 17:54	1
8:2 Fluorotelomer sulfonic acid	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	151		20 - 187	08/07/20 08:18	08/12/20 17:54	1
M2-8:2 FTS	335	*5	34 - 182	08/07/20 08:18	08/12/20 17:54	1
M2-6:2 FTS	425	*5	29 - 189	08/07/20 08:18	08/12/20 17:54	1
13C5 PFHxA	91		31 - 142	08/07/20 08:18	08/12/20 17:54	1
13C4 PFHpA	113		30 - 144	08/07/20 08:18	08/12/20 17:54	1
13C8 PFOA	103		49 - 127	08/07/20 08:18	08/12/20 17:54	1
13C9 PFNA	154	*5	47 - 136	08/07/20 08:18	08/12/20 17:54	1
13C6 PFDA	102		47 - 128	08/07/20 08:18	08/12/20 17:54	1
13C7 PFUnA	99		40 - 135	08/07/20 08:18	08/12/20 17:54	1
13C2-PFDoDA	32		28 - 136	08/07/20 08:18	08/12/20 17:54	1
13C2 PFTeDA	64		10 - 144	08/07/20 08:18	08/12/20 17:54	1
13C3 PFBS	110		19 - 178	08/07/20 08:18	08/12/20 17:54	1
13C3 PFHxS	85		32 - 145	08/07/20 08:18	08/12/20 17:54	1
13C8 PFOS	101		49 - 126	08/07/20 08:18	08/12/20 17:54	1

Client Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Client Sample ID: 3 Anvil 10X10

Lab Sample ID: 410-8785-3

Date Collected: 07/25/20 11:00

Matrix: Water

Date Received: 07/25/20 14:25

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d3-NMeFOSAA	152	*5	32 - 151	08/07/20 08:18	08/12/20 17:54	1
d5-NEtFOSAA	162		37 - 164	08/07/20 08:18	08/12/20 17:54	1
13C8 FOSA	76		10 - 143	08/07/20 08:18	08/12/20 17:54	1
13C4 PFBA	99		41 - 132	08/07/20 08:18	08/12/20 17:54	1
13C5 PFPeA	107		33 - 155	08/07/20 08:18	08/12/20 17:54	1
d7-N-MeFOSE-M	89		10 - 143	08/07/20 08:18	08/12/20 17:54	1
d3-NMePFOSA	69		10 - 107	08/07/20 08:18	08/12/20 17:54	1
d9-N-EtFOSE-M	154	*5	10 - 142	08/07/20 08:18	08/12/20 17:54	1
d5-NEtPFOSA	76		10 - 108	08/07/20 08:18	08/12/20 17:54	1
13C3 HFPO-DA	76		20 - 153	08/07/20 08:18	08/12/20 17:54	1

Isotope Dilution Summary

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

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 (22-169)	M282FTS (37-169)	M262FTS (29-182)	13C5PHA (36-137)	C4PFHA (33-140)	C8PFOA (52-124)	C9PFNA (48-130)	C6PFDA (50-124)
410-8785-1	1 Tap Water	143	130	144	77	82	85	87	82

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13C7PUA (44-128)	PFDODA (36-127)	PFTDA (21-134)	C3PFBS (23-175)	C3PFHS (35-143)	C8PFOS (52-121)	d3NMFOS (36-143)	d5NEFOS (42-149)
410-8785-1	1 Tap Water	80	75	76	98	86	80	89	96

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (10-134)	PFBA (43-130)	PFPeA (38-150)	NMFM (10-137)	d3NMFSA (10-107)	NEFM (10-135)	d5NPFSA (10-107)	HFPODA (24-147)
410-8785-1	1 Tap Water	61	84	90	43	8 *5	41	7 *5	101

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (20-187)	M282FTS (34-182)	M262FTS (29-189)	13C5PHA (31-142)	C4PFHA (30-144)	C8PFOA (49-127)	C9PFNA (47-136)	C6PFDA (47-128)
410-8785-2	2 Anvil 10X10	110	284 *5	374 *5	71	96	85	124	90
410-8785-3	3 Anvil 10X10	151	335 *5	425 *5	91	113	103	154 *5	102
LCS 410-30684/2-B	Lab Control Sample	109	113	125	93	98	103	106	99
LCS 410-30684/3-B	Lab Control Sample Dup	100	105	112	84	84	89	92	94
MB 410-30684/1-B	Method Blank	106	118	115	93	90	94	98	102

Isotope Dilution Summary

Client: PEER
 Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

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	13C7PUA (40-135)	PFD _o DA (28-136)	PFTDA (10-144)	C3PFBS (19-178)	C3PFHS (32-145)	C8PFOS (49-126)	d3NMFOS (32-151)	d5NEFOS (37-164)
410-8785-2	2 Anvil 10X10	85	30	59	99	72	80	128	139
410-8785-3	3 Anvil 10X10	99	32	64	110	85	101	152 *5	162
LCS 410-30684/2-B	Lab Control Sample	105	99	97	107	102	104	116	120
LCSD 410-30684/3-B	Lab Control Sample Dup	101	95	87	93	84	92	110	118
MB 410-30684/1-B	Method Blank	103	102	99	100	92	99	118	121

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (10-143)	PFBA (41-132)	PFPeA (33-155)	NMFM (10-143)	d3NMFSA (10-107)	NEFM (10-142)	d5NPFSA (10-108)	HFPODA (20-153)
410-8785-2	2 Anvil 10X10	66	87	95	81	63	134	69	73
410-8785-3	3 Anvil 10X10	76	99	107	89	69	154 *5	76	76
LCS 410-30684/2-B	Lab Control Sample	103	101	107	52	37	48	25	99
LCSD 410-30684/3-B	Lab Control Sample Dup	98	90	94	54	40	49	25	84
MB 410-30684/1-B	Method Blank	106	96	103	49	34	46	23	98

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
- PFD_oDA = 13C2-PFD_oDA
- 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

QC Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-30377/4
Matrix: Water
Analysis Batch: 30377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.050	mg/L			08/06/20 20:34	1

Lab Sample ID: LCS 410-30377/3
Matrix: Water
Analysis Batch: 30377

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.750	0.703		mg/L		94	90 - 110

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-30684/1-B
Matrix: Water
Analysis Batch: 32299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluoroheptanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorooctanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorononanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorodecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorotridecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorotetradecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorobutanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorohexanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorooctanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
NEtFOSAA	ND		1500	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
NMeFOSAA	ND		1000	300	ng/L		08/07/20 08:18	08/12/20 17:15	1
10:2 FTS	ND		2500	500	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluoropentanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluoroheptanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorononanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorodecanesulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorooctanesulfonamide	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorohexadecanoic acid	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorooctadecanoic acid	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorobutanoic acid	ND		2500	1000	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluoropentanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
NMeFOSE	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:15	1
NMeFOSA	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:15	1
NEtFOSE	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:15	1
NEtFOSA	ND		2500	500	ng/L		08/07/20 08:18	08/12/20 17:15	1
HFPODA	ND		1500	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
DONA	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
9CI-PF3ONS	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
11CI-PF3OUdS	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluorododecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1

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QC Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

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

Lab Sample ID: MB 410-30684/1-B
Matrix: Water
Analysis Batch: 32299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 Fluorotelomer sulfonic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
Perfluoroundecanoic acid	ND		1000	250	ng/L		08/07/20 08:18	08/12/20 17:15	1
6:2 Fluorotelomer sulfonic acid	ND		2500	1000	ng/L		08/07/20 08:18	08/12/20 17:15	1
8:2 Fluorotelomer sulfonic acid	ND		1500	500	ng/L		08/07/20 08:18	08/12/20 17:15	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	106		20 - 187	08/07/20 08:18	08/12/20 17:15	1
M2-8:2 FTS	118		34 - 182	08/07/20 08:18	08/12/20 17:15	1
M2-6:2 FTS	115		29 - 189	08/07/20 08:18	08/12/20 17:15	1
13C5 PFHxA	93		31 - 142	08/07/20 08:18	08/12/20 17:15	1
13C4 PFHpA	90		30 - 144	08/07/20 08:18	08/12/20 17:15	1
13C8 PFOA	94		49 - 127	08/07/20 08:18	08/12/20 17:15	1
13C9 PFNA	98		47 - 136	08/07/20 08:18	08/12/20 17:15	1
13C6 PFDA	102		47 - 128	08/07/20 08:18	08/12/20 17:15	1
13C7 PFUnA	103		40 - 135	08/07/20 08:18	08/12/20 17:15	1
13C2-PFDoDA	102		28 - 136	08/07/20 08:18	08/12/20 17:15	1
13C2 PFTeDA	99		10 - 144	08/07/20 08:18	08/12/20 17:15	1
13C3 PFBS	100		19 - 178	08/07/20 08:18	08/12/20 17:15	1
13C3 PFHxS	92		32 - 145	08/07/20 08:18	08/12/20 17:15	1
13C8 PFOS	99		49 - 126	08/07/20 08:18	08/12/20 17:15	1
d3-NMeFOSAA	118		32 - 151	08/07/20 08:18	08/12/20 17:15	1
d5-NEtFOSAA	121		37 - 164	08/07/20 08:18	08/12/20 17:15	1
13C8 FOSA	106		10 - 143	08/07/20 08:18	08/12/20 17:15	1
13C4 PFBA	96		41 - 132	08/07/20 08:18	08/12/20 17:15	1
13C5 PFPeA	103		33 - 155	08/07/20 08:18	08/12/20 17:15	1
d7-N-MeFOSE-M	49		10 - 143	08/07/20 08:18	08/12/20 17:15	1
d3-NMePFOSA	34		10 - 107	08/07/20 08:18	08/12/20 17:15	1
d9-N-EtFOSE-M	46		10 - 142	08/07/20 08:18	08/12/20 17:15	1
d5-NEtPFOSA	23		10 - 108	08/07/20 08:18	08/12/20 17:15	1
13C3 HFPO-DA	98		20 - 153	08/07/20 08:18	08/12/20 17:15	1

Lab Sample ID: LCS 410-30684/2-B
Matrix: Water
Analysis Batch: 32299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	6400	7010		ng/L		110	70 - 130
Perfluoroheptanoic acid	6400	6680		ng/L		104	70 - 130
Perfluorooctanoic acid	6400	6610		ng/L		103	70 - 130
Perfluorononanoic acid	6400	6930		ng/L		108	70 - 130
Perfluorodecanoic acid	6400	6950		ng/L		109	70 - 130
Perfluorotridecanoic acid	6400	7290		ng/L		114	70 - 130
Perfluorotetradecanoic acid	6400	6740		ng/L		105	70 - 130
Perfluorobutanesulfonic acid	5660	5580		ng/L		99	70 - 130
Perfluorohexanesulfonic acid	6050	5590		ng/L		92	70 - 130
Perfluorooctanesulfonic acid	6120	5210		ng/L		85	70 - 130
NEtFOSAA	6400	6420		ng/L		100	70 - 130
NMeFOSAA	6400	7010		ng/L		109	70 - 130
10:2 FTS	6170	7010		ng/L		114	70 - 130

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

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

Lab Sample ID: LCS 410-30684/2-B
Matrix: Water
Analysis Batch: 32299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoropentanesulfonic acid	6000	6920		ng/L		115	70 - 130
Perfluoroheptanesulfonic acid	6090	6670		ng/L		110	70 - 130
Perfluorononanesulfonic acid	6140	6670		ng/L		108	70 - 130
Perfluorodecanesulfonic acid	6160	6640		ng/L		108	70 - 130
Perfluorododecanesulfonic acid (PFDoS)	6200	6450		ng/L		104	70 - 130
Perfluorooctanesulfonamide	6400	6390		ng/L		100	70 - 130
Perfluorohexadecanoic acid	6400	6920		ng/L		108	70 - 130
Perfluorooctadecanoic acid	6400	6380		ng/L		100	70 - 130
Perfluorobutanoic acid	6400	7240		ng/L		113	70 - 130
Perfluoropentanoic acid	6400	6900		ng/L		108	70 - 130
NMeFOSE	6400	6080		ng/L		95	70 - 130
NMeFOSA	6400	6140		ng/L		96	70 - 130
NEtFOSE	6400	6350		ng/L		99	70 - 130
NEtFOSA	6400	6330		ng/L		99	70 - 130
HFPODA	6400	5540		ng/L		87	70 - 130
DONA	6030	6210		ng/L		103	70 - 130
9CI-PF3ONS	5960	5900		ng/L		99	70 - 130
11CI-PF3OUdS	6030	5720		ng/L		95	70 - 130
Perfluorododecanoic acid	6400	6940		ng/L		109	70 - 130
4:2 Fluorotelomer sulfonic acid	5980	6100		ng/L		102	70 - 130
Perfluoroundecanoic acid	6400	6600		ng/L		103	70 - 130
6:2 Fluorotelomer sulfonic acid	6070	6150		ng/L		101	70 - 130
8:2 Fluorotelomer sulfonic acid	6130	6530		ng/L		107	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	109		20 - 187
M2-8:2 FTS	113		34 - 182
M2-6:2 FTS	125		29 - 189
13C5 PFHxA	93		31 - 142
13C4 PFHpA	98		30 - 144
13C8 PFOA	103		49 - 127
13C9 PFNA	106		47 - 136
13C6 PFDA	99		47 - 128
13C7 PFUnA	105		40 - 135
13C2-PFDoDA	99		28 - 136
13C2 PFTeDA	97		10 - 144
13C3 PFBS	107		19 - 178
13C3 PFHxS	102		32 - 145
13C8 PFOS	104		49 - 126
d3-NMeFOSAA	116		32 - 151
d5-NEtFOSAA	120		37 - 164
13C8 FOSA	103		10 - 143
13C4 PFBA	101		41 - 132
13C5 PFPeA	107		33 - 155
d7-N-MeFOSE-M	52		10 - 143
d3-NMePFOSA	37		10 - 107
d9-N-EtFOSE-M	48		10 - 142
d5-NEtPFOSA	25		10 - 108

QC Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

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

Lab Sample ID: LCS 410-30684/2-B
Matrix: Water
Analysis Batch: 32299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30684

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	99		20 - 153

Lab Sample ID: LCSD 410-30684/3-B
Matrix: Water
Analysis Batch: 32299

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30684

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Perfluorohexanoic acid	6400	6720		ng/L		105	70 - 130	4	30	
Perfluoroheptanoic acid	6400	6540		ng/L		102	70 - 130	2	30	
Perfluorooctanoic acid	6400	6620		ng/L		103	70 - 130	0	30	
Perfluorononanoic acid	6400	6760		ng/L		106	70 - 130	2	30	
Perfluorodecanoic acid	6400	6410		ng/L		100	70 - 130	8	30	
Perfluorotridecanoic acid	6400	6760		ng/L		106	70 - 130	8	30	
Perfluorotetradecanoic acid	6400	6820		ng/L		107	70 - 130	1	30	
Perfluorobutanesulfonic acid	5660	5850		ng/L		103	70 - 130	5	30	
Perfluorohexanesulfonic acid	6050	5750		ng/L		95	70 - 130	3	30	
Perfluorooctanesulfonic acid	6120	5310		ng/L		87	70 - 130	2	30	
NEtFOSAA	6400	6450		ng/L		101	70 - 130	0	30	
NMeFOSAA	6400	6580		ng/L		103	70 - 130	6	30	
10:2 FTS	6170	7060		ng/L		114	70 - 130	1	30	
Perfluoropentanesulfonic acid	6000	7070		ng/L		118	70 - 130	2	30	
Perfluoroheptanesulfonic acid	6090	7060		ng/L		116	70 - 130	6	30	
Perfluorononanesulfonic acid	6140	6760		ng/L		110	70 - 130	1	30	
Perfluorodecanesulfonic acid	6160	6530		ng/L		106	70 - 130	2	30	
Perfluorododecanesulfonic acid (PFDoS)	6200	6170		ng/L		100	70 - 130	4	30	
Perfluorooctanesulfonamide	6400	6220		ng/L		97	70 - 130	3	30	
Perfluorohexadecanoic acid	6400	6570		ng/L		103	70 - 130	5	30	
Perfluorooctadecanoic acid	6400	5720		ng/L		89	70 - 130	11	30	
Perfluorobutanoic acid	6400	7480		ng/L		117	70 - 130	3	30	
Perfluoropentanoic acid	6400	7100		ng/L		111	70 - 130	3	30	
NMeFOSE	6400	6010		ng/L		94	70 - 130	1	30	
NMeFOSA	6400	5580		ng/L		87	70 - 130	10	30	
NEtFOSE	6400	6170		ng/L		96	70 - 130	3	30	
NEtFOSA	6400	6630		ng/L		104	70 - 130	5	30	
HFPODA	6400	5570		ng/L		87	70 - 130	1	30	
DONA	6030	6280		ng/L		104	70 - 130	1	30	
9CI-PF3ONS	5960	5820		ng/L		98	70 - 130	1	30	
11CI-PF3OUdS	6030	5790		ng/L		96	70 - 130	1	30	
Perfluorododecanoic acid	6400	7100		ng/L		111	70 - 130	2	30	
4:2 Fluorotelomer sulfonic acid	5980	5890		ng/L		99	70 - 130	4	30	
Perfluoroundecanoic acid	6400	6750		ng/L		105	70 - 130	2	30	
6:2 Fluorotelomer sulfonic acid	6070	5800		ng/L		96	70 - 130	6	30	
8:2 Fluorotelomer sulfonic acid	6130	6030		ng/L		98	70 - 130	8	30	

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	100		20 - 187
M2-8:2 FTS	105		34 - 182
M2-6:2 FTS	112		29 - 189

QC Sample Results

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

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

Lab Sample ID: LCSD 410-30684/3-B
Matrix: Water
Analysis Batch: 32299

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30684

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C5 PFHxA	84		31 - 142
13C4 PFHpA	84		30 - 144
13C8 PFOA	89		49 - 127
13C9 PFNA	92		47 - 136
13C6 PFDA	94		47 - 128
13C7 PFUnA	101		40 - 135
13C2-PFDoDA	95		28 - 136
13C2 PFTeDA	87		10 - 144
13C3 PFBS	93		19 - 178
13C3 PFHxS	84		32 - 145
13C8 PFOS	92		49 - 126
d3-NMeFOSAA	110		32 - 151
d5-NEtFOSAA	118		37 - 164
13C8 FOSA	98		10 - 143
13C4 PFBA	90		41 - 132
13C5 PFPeA	94		33 - 155
d7-N-MeFOSE-M	54		10 - 143
d3-NMePFOSA	40		10 - 107
d9-N-EtFOSE-M	49		10 - 142
d5-NEtPFOSA	25		10 - 108
13C3 HFPO-DA	84		20 - 153



QC Association Summary

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

HPLC/IC

Analysis Batch: 30377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-8785-2	2 Anvil 10X10	Total/NA	Water	EPA 300.0 R2.1	
410-8785-3	3 Anvil 10X10	Total/NA	Water	EPA 300.0 R2.1	
MB 410-30377/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-30377/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

LCMS

Prep Batch: 26793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-8785-1	1 Tap Water	Total/NA	Water	537 IDA	

Analysis Batch: 29193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-8785-1	1 Tap Water	Total/NA	Water	537 IDA	26793

Prep Batch: 30684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-8785-2 - RA	2 Anvil 10X10	Total/NA	Water	EPA 537 (Mod)	
410-8785-2	2 Anvil 10X10	Total/NA	Water	EPA 537 (Mod)	
410-8785-3 - RA	3 Anvil 10X10	Total/NA	Water	EPA 537 (Mod)	
410-8785-3	3 Anvil 10X10	Total/NA	Water	EPA 537 (Mod)	
MB 410-30684/1-B	Method Blank	Total/NA	Water	EPA 537 (Mod)	
LCS 410-30684/2-B	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	
LCSD 410-30684/3-B	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	

Cleanup Batch: 30691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-8785-2	2 Anvil 10X10	Total/NA	Water	Extract Aliquot	30684
410-8785-2 - RA	2 Anvil 10X10	Total/NA	Water	Extract Aliquot	30684
410-8785-3	3 Anvil 10X10	Total/NA	Water	Extract Aliquot	30684
410-8785-3 - RA	3 Anvil 10X10	Total/NA	Water	Extract Aliquot	30684
MB 410-30684/1-B	Method Blank	Total/NA	Water	Extract Aliquot	30684
LCS 410-30684/2-B	Lab Control Sample	Total/NA	Water	Extract Aliquot	30684
LCSD 410-30684/3-B	Lab Control Sample Dup	Total/NA	Water	Extract Aliquot	30684

Analysis Batch: 32299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-8785-2	2 Anvil 10X10	Total/NA	Water	537 IDA	30691
410-8785-3	3 Anvil 10X10	Total/NA	Water	537 IDA	30691
MB 410-30684/1-B	Method Blank	Total/NA	Water	537 IDA	30691
LCS 410-30684/2-B	Lab Control Sample	Total/NA	Water	537 IDA	30691
LCSD 410-30684/3-B	Lab Control Sample Dup	Total/NA	Water	537 IDA	30691

Analysis Batch: 33538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-8785-2 - RA	2 Anvil 10X10	Total/NA	Water	537 IDA	30691
410-8785-3 - RA	3 Anvil 10X10	Total/NA	Water	537 IDA	30691

Lab Chronicle

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Client Sample ID: 1 Tap Water

Date Collected: 07/25/20 11:00

Date Received: 07/25/20 14:25

Lab Sample ID: 410-8785-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 IDA			26793	07/27/20 15:21	Z5TV	ELLE
Total/NA	Analysis	537 IDA		1	29193	08/03/20 23:49	UCD3	ELLE

Client Sample ID: 2 Anvil 10X10

Date Collected: 07/25/20 11:00

Date Received: 07/25/20 14:25

Lab Sample ID: 410-8785-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		500	30377	08/06/20 21:59	GJ35	ELLE
Total/NA	Prep	EPA 537 (Mod)			30684	08/07/20 08:18	W5MU	ELLE
Total/NA	Cleanup	Extract Aliquot			30691	08/07/20 08:34	W5MU	ELLE
Total/NA	Analysis	537 IDA		1	32299	08/12/20 17:44	UUV6	ELLE
Total/NA	Prep	EPA 537 (Mod)	RA		30684	08/07/20 08:18	W5MU	ELLE
Total/NA	Cleanup	Extract Aliquot	RA		30691	08/07/20 08:34	W5MU	ELLE
Total/NA	Analysis	537 IDA	RA	1	33538	08/15/20 15:01	OXB7	ELLE

Client Sample ID: 3 Anvil 10X10

Date Collected: 07/25/20 11:00

Date Received: 07/25/20 14:25

Lab Sample ID: 410-8785-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		500	30377	08/06/20 21:42	GJ35	ELLE
Total/NA	Prep	EPA 537 (Mod)			30684	08/07/20 08:18	W5MU	ELLE
Total/NA	Cleanup	Extract Aliquot			30691	08/07/20 08:34	W5MU	ELLE
Total/NA	Analysis	537 IDA		1	32299	08/12/20 17:54	UUV6	ELLE
Total/NA	Prep	EPA 537 (Mod)	RA		30684	08/07/20 08:18	W5MU	ELLE
Total/NA	Cleanup	Extract Aliquot	RA		30691	08/07/20 08:34	W5MU	ELLE
Total/NA	Analysis	537 IDA	RA	1	33538	08/15/20 15:11	OXB7	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	09-30-20

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 IDA	Water	10:2 FTS
537 IDA	537 IDA	Water	11CI-PF3OUdS
537 IDA	537 IDA	Water	4:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	9CI-PF3ONS
537 IDA	537 IDA	Water	DONA
537 IDA	537 IDA	Water	HFPODA
537 IDA	537 IDA	Water	NEtFOSA
537 IDA	537 IDA	Water	NEtFOSAA
537 IDA	537 IDA	Water	NEtFOSE
537 IDA	537 IDA	Water	NMeFOSA
537 IDA	537 IDA	Water	NMeFOSAA
537 IDA	537 IDA	Water	NMeFOSE
537 IDA	537 IDA	Water	Perfluorobutanesulfonic acid
537 IDA	537 IDA	Water	Perfluorobutanoic acid
537 IDA	537 IDA	Water	Perfluorodecanesulfonic acid
537 IDA	537 IDA	Water	Perfluorodecanoic acid
537 IDA	537 IDA	Water	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	537 IDA	Water	Perfluorododecanoic acid
537 IDA	537 IDA	Water	Perfluoroheptanesulfonic acid
537 IDA	537 IDA	Water	Perfluoroheptanoic acid
537 IDA	537 IDA	Water	Perfluorohexadecanoic acid
537 IDA	537 IDA	Water	Perfluorohexanesulfonic acid
537 IDA	537 IDA	Water	Perfluorohexanoic acid
537 IDA	537 IDA	Water	Perfluorononanesulfonic acid
537 IDA	537 IDA	Water	Perfluorononanoic acid
537 IDA	537 IDA	Water	Perfluorooctadecanoic acid
537 IDA	537 IDA	Water	Perfluorooctanesulfonamide
537 IDA	537 IDA	Water	Perfluorooctanesulfonic acid
537 IDA	537 IDA	Water	Perfluorooctanoic acid
537 IDA	537 IDA	Water	Perfluoropentanesulfonic acid
537 IDA	537 IDA	Water	Perfluoropentanoic acid
537 IDA	537 IDA	Water	Perfluorotetradecanoic acid
537 IDA	537 IDA	Water	Perfluorotridecanoic acid
537 IDA	537 IDA	Water	Perfluoroundecanoic acid
537 IDA	EPA 537 (Mod)	Water	10:2 FTS
537 IDA	EPA 537 (Mod)	Water	11CI-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	9CI-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: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	09-30-20
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
EPA 300.0 R2.1		Water	Fluoride

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 IDA	Water	10:2 FTS
537 IDA	537 IDA	Water	11Cl-PF3OUdS
537 IDA	537 IDA	Water	4:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	9Cl-PF3ONS
537 IDA	537 IDA	Water	DONA
537 IDA	537 IDA	Water	HFPODA
537 IDA	537 IDA	Water	NEtFOSA
537 IDA	537 IDA	Water	NEtFOSAA
537 IDA	537 IDA	Water	NEtFOSE
537 IDA	537 IDA	Water	NMeFOSA
537 IDA	537 IDA	Water	NMeFOSAA
537 IDA	537 IDA	Water	NMeFOSE
537 IDA	537 IDA	Water	Perfluorobutanesulfonic acid
537 IDA	537 IDA	Water	Perfluorobutanoic acid
537 IDA	537 IDA	Water	Perfluorodecanesulfonic acid

Accreditation/Certification Summary

Client: PEER
 Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-21
537 IDA	537 IDA	Water	Perfluorodecanoic acid
537 IDA	537 IDA	Water	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	537 IDA	Water	Perfluorododecanoic acid
537 IDA	537 IDA	Water	Perfluoroheptanesulfonic acid
537 IDA	537 IDA	Water	Perfluoroheptanoic acid
537 IDA	537 IDA	Water	Perfluorohexadecanoic acid
537 IDA	537 IDA	Water	Perfluorohexanesulfonic acid
537 IDA	537 IDA	Water	Perfluorohexanoic acid
537 IDA	537 IDA	Water	Perfluorononanesulfonic acid
537 IDA	537 IDA	Water	Perfluorononanoic acid
537 IDA	537 IDA	Water	Perfluorooctadecanoic acid
537 IDA	537 IDA	Water	Perfluorooctanesulfonamide
537 IDA	537 IDA	Water	Perfluorooctanesulfonic acid
537 IDA	537 IDA	Water	Perfluorooctanoic acid
537 IDA	537 IDA	Water	Perfluoropentanesulfonic acid
537 IDA	537 IDA	Water	Perfluoropentanoic acid
537 IDA	537 IDA	Water	Perfluorotetradecanoic acid
537 IDA	537 IDA	Water	Perfluorotridecanoic acid
537 IDA	537 IDA	Water	Perfluoroundecanoic acid
537 IDA	EPA 537 (Mod)	Water	10:2 FTS
537 IDA	EPA 537 (Mod)	Water	11CI-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	9CI-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	Perfluorododecanesulfonic acid
537 IDA	EPA 537 (Mod)	Water	Perfluorododecanoic 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

Accreditation/Certification Summary

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-21
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: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

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



Sample Summary

Client: PEER
Project/Site: Anvil/ PFAS Testing

Job ID: 410-8785-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-8785-1	1 Tap Water	Water	07/25/20 11:00	07/25/20 14:25	
410-8785-2	2 Anvil 10X10	Water	07/25/20 11:00	07/25/20 14:25	
410-8785-3	3 Anvil 10X10	Water	07/25/20 11:00	07/25/20 14:25	

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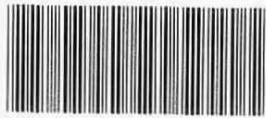
11

12

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Chain of Custody Record

Client Info Client Contact: Kyla Bennett Company: PEER Address: 962 Wayne Avenue Suite 610 City: Silver Spring State, Zip: MD, 20910 Phone: 202-265-7337(Tel) Email: biojustus@comcast.net Project Name: <i>Anvil/PEAS</i> Site: <i>405mg</i>		410-8785 Chain of Custody		Lab PM: Izzo, Mary Kate E-Mail: marykateizzo@eurofinsus.com		Camer Tracking No(s):		COC No: 410-8547-2274.1 Page: Page 1 of 1	
Due Date Requested:				Analysis Requested				Job #	
TAT Requested (days):				Field Filtered Sample (Yes or No) PFC_IDA - Standard 32, plus 4 replacements 300_ORGFN_260 - Fluoride				Preservation Codes:	
PO #: Purchase Order not required								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)	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Total Number of containers		Special Instructions/Note:	
1 tap water		7/25/20	11:00am		Water	N			
2 Anvil 10x10		"	11:00am			N			
3 Anvil 10x10		"	11:0am			N			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input checked="" type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <u>3</u> Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:					
Relinquished by: <i>Kyle G. Hunt</i>		Date/Time: 7-20-20 08:53	Company:	Received by:		Date/Time:	Company:		
Relinquished by: <i>[Signature]</i>		Date/Time: 7/25/20 14:25	Company:	Received by:		Date/Time:	Company:		
Relinquished by: <i>[Signature]</i>		Date/Time:	Company:	Received by: <i>[Signature]</i>		Date/Time: 7/25/20 14:25	Company: <i>ELLE</i>		
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>1.6</i>					

hawk

Login Sample Receipt Checklist

Client: PEER

Job Number: 410-8785-1

Login Number: 8785

List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Rivera, Tatiana

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