

ANALYTICAL REPORT

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

Laboratory Job ID: 410-37033-1
Client Project/Site: PEER

For:
PEER
962 Wayne Avenue
Suite 610
Silver Spring, Maryland 20910

Attn: Tim Whitehouse



Authorized for release by:
5/13/2021 1:44:39 PM

Dana Kauffman, Project Manager
(717)656-2300
Dana.Kauffman@eurofinset.com

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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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Dana Kauffman
Project Manager
5/13/2021 1:44:39 PM



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Definitions/Glossary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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.
B	Compound was found in the blank and sample.
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: PEER

Job ID: 410-37033-1

Job ID: 410-37033-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-37033-1

Receipt

The samples were received on 4/23/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: FRONTLINE PLUS for DOGS (410-37033-1) and SERESTO Collar (410-37033-2). Used collection time of 00:00.

LCMS

Method PFC_IDA: The recovery for the labeled isotope in the following sample: SERESTO Collar (410-37033-2) 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.

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: PEER

Job ID: 410-37033-1

Client Sample ID: FRONTLINE PLUS for DOGS

Lab Sample ID: 410-37033-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	530	J	1000	250	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	270	J	1000	250	ng/L	1		537 IDA	Total/NA
Perfluoroheptanesulfonic acid	390	J	1000	250	ng/L	1		537 IDA	Total/NA
HFPODA	1200	J B	1500	250	ng/L	1		537 IDA	Total/NA

Client Sample ID: SERESTO Collar

Lab Sample ID: 410-37033-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorododecanesulfonic acid (PFDoS)	0.25	J	1.9	0.19	ng/g	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

Client Sample ID: FRONTLINE PLUS for DOGS

Lab Sample ID: 410-37033-1

Date Collected: 04/16/21 00:00

Matrix: Water

Date Received: 04/23/21 09:30

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	530	J	1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluoroheptanoic acid	270	J	1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorooctanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorononanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorodecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorotridecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorotetradecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorobutanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorohexanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorooctanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
NEtFOSAA	ND		1500	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
NMeFOSAA	ND		1000	300	ng/L		05/11/21 19:13	05/12/21 13:42	1
10:2 FTS	ND		2500	500	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluoropentanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluoroheptanesulfonic acid	390	J	1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluoronanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorodecanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorooctanesulfonamide	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorohexadecanoic acid	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorooctadecanoic acid	ND *1		1500	500	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorobutanoic acid	ND		2500	1000	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluoropentanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
NMeFOSE	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 13:42	1
NMeFOSA	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 13:42	1
NEtFOSE	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 13:42	1
NEtFOSA	ND		2500	500	ng/L		05/11/21 19:13	05/12/21 13:42	1
HFPODA	1200	J B	1500	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
DONA	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
9Cl-PF3ONS	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
11Cl-PF3OUdS	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluorododecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
4:2 Fluorotelomer sulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
Perfluoroundecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 13:42	1
6:2 Fluorotelomer sulfonic acid	ND		2500	1000	ng/L		05/11/21 19:13	05/12/21 13:42	1
8:2 Fluorotelomer sulfonic acid	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 13:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	125		20 - 187				05/11/21 19:13	05/12/21 13:42	1
M2-8:2 FTS	78		34 - 182				05/11/21 19:13	05/12/21 13:42	1
M2-6:2 FTS	77		29 - 189				05/11/21 19:13	05/12/21 13:42	1
13C5 PFHxA	111		31 - 142				05/11/21 19:13	05/12/21 13:42	1
13C4 PFHpA	172	*5+	30 - 144				05/11/21 19:13	05/12/21 13:42	1
13C8 PFOA	54		49 - 127				05/11/21 19:13	05/12/21 13:42	1
13C9 PFNA	5	*5-	47 - 136				05/11/21 19:13	05/12/21 13:42	1
13C6 PFDA	48		47 - 128				05/11/21 19:13	05/12/21 13:42	1
13C7 PFUnA	72		40 - 135				05/11/21 19:13	05/12/21 13:42	1
13C2-PFDoDA	91		28 - 136				05/11/21 19:13	05/12/21 13:42	1
13C2 PFTeDA	157	*5+	10 - 144				05/11/21 19:13	05/12/21 13:42	1

Client Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

Client Sample ID: FRONTLINE PLUS for DOGS

Lab Sample ID: 410-37033-1

Date Collected: 04/16/21 00:00

Matrix: Water

Date Received: 04/23/21 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	18	*5-	19 - 178	05/11/21 19:13	05/12/21 13:42	1
13C3 PFHxS	156	*5+	32 - 145	05/11/21 19:13	05/12/21 13:42	1
13C8 PFOS	53		49 - 126	05/11/21 19:13	05/12/21 13:42	1
d3-NMeFOSAA	35		32 - 151	05/11/21 19:13	05/12/21 13:42	1
d5-NEtFOSAA	80		37 - 164	05/11/21 19:13	05/12/21 13:42	1
13C8 FOSA	49		10 - 143	05/11/21 19:13	05/12/21 13:42	1
13C4 PFBA	60		41 - 132	05/11/21 19:13	05/12/21 13:42	1
13C5 PFPeA	30	*5-	33 - 155	05/11/21 19:13	05/12/21 13:42	1
d7-N-MeFOSE-M	95		10 - 143	05/11/21 19:13	05/12/21 13:42	1
d3-NMePFOSA	90		10 - 107	05/11/21 19:13	05/12/21 13:42	1
d9-N-EtFOSE-M	114		10 - 142	05/11/21 19:13	05/12/21 13:42	1
d5-NEtPFOSA	96		10 - 108	05/11/21 19:13	05/12/21 13:42	1
13C3 HFPO-DA	95		20 - 153	05/11/21 19:13	05/12/21 13:42	1

Client Sample ID: SERESTO Collar

Lab Sample ID: 410-37033-2

Date Collected: 04/16/21 00:00

Matrix: Solid

Date Received: 04/23/21 09:30

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluoroheptanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorooctanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorononanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorodecanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorotridecanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorotetradecanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorobutanesulfonic acid	ND		1.9	0.37	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorohexanesulfonic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorooctanesulfonic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
NEtFOSAA	ND		1.9	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
NMeFOSAA	ND		1.9	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
10:2 FTS	ND		1.9	0.56	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluoropentanesulfonic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluoroheptanesulfonic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorononanesulfonic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorodecanesulfonic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorododecanesulfonic acid (PFDoS)	0.25	J	1.9	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorooctanesulfonamide	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorohexadecanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorooctadecanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorobutanoic acid	ND		1.9	0.75	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluoropentanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
NMeFOSE	ND		1.9	0.47	ng/g		04/30/21 11:17	05/03/21 19:14	1
NMeFOSA	ND		1.9	0.47	ng/g		04/30/21 11:17	05/03/21 19:14	1
NEtFOSE	ND		1.9	0.47	ng/g		04/30/21 11:17	05/03/21 19:14	1
NEtFOSA	ND		1.9	0.47	ng/g		04/30/21 11:17	05/03/21 19:14	1
HFPODA	ND		1.9	0.37	ng/g		04/30/21 11:17	05/03/21 19:14	1
DONA	ND		2.8	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1

Client Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

Client Sample ID: SERESTO Collar

Lab Sample ID: 410-37033-2

Date Collected: 04/16/21 00:00

Matrix: Solid

Date Received: 04/23/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9Cl-PF3ONS	ND		1.9	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
11Cl-PF3OUdS	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluorododecanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.56	ng/g		04/30/21 11:17	05/03/21 19:14	1
Perfluoroundecanoic acid	ND		0.56	0.19	ng/g		04/30/21 11:17	05/03/21 19:14	1
6:2 Fluorotelomer sulfonic acid	ND		1.9	0.56	ng/g		04/30/21 11:17	05/03/21 19:14	1
8:2 Fluorotelomer sulfonic acid	ND		2.8	0.56	ng/g		04/30/21 11:17	05/03/21 19:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	129		10 - 169	04/30/21 11:17	05/03/21 19:14	1
M2-8:2 FTS	84		10 - 178	04/30/21 11:17	05/03/21 19:14	1
M2-6:2 FTS	105		10 - 182	04/30/21 11:17	05/03/21 19:14	1
13C5 PFHxA	77		11 - 138	04/30/21 11:17	05/03/21 19:14	1
13C4 PFHpA	85		15 - 139	04/30/21 11:17	05/03/21 19:14	1
13C8 PFOA	84		21 - 133	04/30/21 11:17	05/03/21 19:14	1
13C9 PFNA	100		15 - 145	04/30/21 11:17	05/03/21 19:14	1
13C6 PFDA	78		21 - 134	04/30/21 11:17	05/03/21 19:14	1
13C7 PFUnA	134		15 - 138	04/30/21 11:17	05/03/21 19:14	1
13C2-PFDoDA	114		28 - 126	04/30/21 11:17	05/03/21 19:14	1
13C2 PFTeDA	73		10 - 138	04/30/21 11:17	05/03/21 19:14	1
13C3 PFBS	105		23 - 130	04/30/21 11:17	05/03/21 19:14	1
13C3 PFHxS	77		24 - 136	04/30/21 11:17	05/03/21 19:14	1
13C8 PFOS	79		31 - 130	04/30/21 11:17	05/03/21 19:14	1
d3-NMeFOSAA	284	*5+	10 - 172	04/30/21 11:17	05/03/21 19:14	1
d5-NEtFOSAA	465	*5+	10 - 176	04/30/21 11:17	05/03/21 19:14	1
13C8 FOSA	94		25 - 135	04/30/21 11:17	05/03/21 19:14	1
13C4 PFBA	78		12 - 137	04/30/21 11:17	05/03/21 19:14	1
13C5 PFPeA	90		12 - 135	04/30/21 11:17	05/03/21 19:14	1
d7-N-MeFOSE-M	103		10 - 152	04/30/21 11:17	05/03/21 19:14	1
d3-NMePFOSA	95		10 - 148	04/30/21 11:17	05/03/21 19:14	1
d9-N-EtFOSE-M	101		10 - 157	04/30/21 11:17	05/03/21 19:14	1
d5-NEtPFOSA	76		10 - 151	04/30/21 11:17	05/03/21 19:14	1
13C3 HFPO-DA	74		10 - 152	04/30/21 11:17	05/03/21 19:14	1

Isotope Dilution Summary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-169)	M282FTS (10-178)	M262FTS (10-182)	13C5PHA (11-138)	C4PFHA (15-139)	C8PFOA (21-133)	C9PFNA (15-145)	C6PFDA (21-134)
410-37033-2	SERESTO Collar	129	84	105	77	85	84	100	78
LCS 410-121073/2-B	Lab Control Sample	102	103	104	96	94	106	102	102
LCSD 410-121073/3-B	Lab Control Sample Dup	93	79	93	91	94	99	90	96
MB 410-121073/1-B	Method Blank	99	127	113	92	97	104	108	107

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (15-138)	PFD _o DA (28-126)	PFTDA (10-138)	C3PFBS (23-130)	C3PFHS (24-136)	C8PFOS (31-130)	d3NMFOS (10-172)	d5NEFOS (10-176)
410-37033-2	SERESTO Collar	134	114	73	105	77	79	284 *5+	465 *5+
LCS 410-121073/2-B	Lab Control Sample	104	99	103	112	95	99	90	94
LCSD 410-121073/3-B	Lab Control Sample Dup	94	95	100	101	90	95	75	83
MB 410-121073/1-B	Method Blank	112	108	107	113	95	105	98	112

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-135)	PFBA (12-137)	PFPeA (12-135)	NMFM (10-152)	d3NMFSA (10-148)	NEFM (10-157)	d5NPFSA (10-151)	HFPODA (10-152)
410-37033-2	SERESTO Collar	94	78	90	103	95	101	76	74
LCS 410-121073/2-B	Lab Control Sample	95	99	97	100	89	100	80	98
LCSD 410-121073/3-B	Lab Control Sample Dup	90	89	90	87	84	91	81	83
MB 410-121073/1-B	Method Blank	86	94	92	90	85	91	78	82

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

Isotope Dilution Summary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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 (20-187)	M282FTS (34-182)	M262FTS (29-189)	13C5PHA (31-142)	C4PFHA (30-144)	C8PFOA (49-127)	C9PFNA (47-136)	C6PFDA (47-128)
410-37033-1	FRONTLINE PLUS for DOGS	125	78	77	111	172 *5+	54	5 *5-	48
LCS 410-123465/3-B	Lab Control Sample	106	118	126	103	102	106	114	98
LCS 410-125170/3-B	Lab Control Sample	97	112	101	92	85	93	80	90
LCSd 410-123465/4-B	Lab Control Sample Dup	104	121	127	103	104	107	106	98
LCSd 410-125170/4-B	Lab Control Sample Dup	92	105	104	83	83	88	81	85
MB 410-123465/1-B	Method Blank	82	86	101	80	79	80	83	72
MB 410-125170/1-B	Method Blank	86	93	93	78	75	81	73	76

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)
410-37033-1	FRONTLINE PLUS for DOGS	72	91	157 *5+	18 *5-	156 *5+	53	35	80
LCS 410-123465/3-B	Lab Control Sample	103	96	90	114	98	104	101	107
LCS 410-125170/3-B	Lab Control Sample	93	90	77	97	89	86	89	100
LCSd 410-123465/4-B	Lab Control Sample Dup	100	99	87	113	99	104	93	100
LCSd 410-125170/4-B	Lab Control Sample Dup	83	86	70	96	88	83	79	85
MB 410-123465/1-B	Method Blank	73	72	66	88	75	80	71	75
MB 410-125170/1-B	Method Blank	80	80	72	86	77	77	76	81

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)
410-37033-1	FRONTLINE PLUS for DOGS	49	60	30 *5-	95	90	114	96	95
LCS 410-123465/3-B	Lab Control Sample	88	104	96	85	69	80	56	78
LCS 410-125170/3-B	Lab Control Sample	55	84	85	11	5 *5-	12	4 *5-	79
LCSd 410-123465/4-B	Lab Control Sample Dup	73	104	98	54	9 *5-	53	8 *5-	77
LCSd 410-125170/4-B	Lab Control Sample Dup	59	81	84	8 *5-	2 *5-	11	2 *5-	75
MB 410-123465/1-B	Method Blank	65	82	73	59	47	60	41	56
MB 410-125170/1-B	Method Blank	54	76	75	8 *5-	2 *5-	9 *5-	2 *5-	70

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

Isotope Dilution Summary

Client: PEER

Project/Site: PEER

NEFM = d9-N-EtFOSE-M

d5NPFSA = d5-NEtPFOSA

HFPODA = 13C3 HFPO-DA

Job ID: 410-37033-1

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QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-121073/1-B

Matrix: Solid

Analysis Batch: 121732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 121073

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluoroheptanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorooctanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorononanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorodecanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorotridecanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorotetradecanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorobutanesulfonic acid	ND		2.0	0.40	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorohexanesulfonic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorooctanesulfonic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
NEtFOSAA	ND		2.0	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
NMeFOSAA	ND		2.0	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
10:2 FTS	ND		2.0	0.60	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluoropentanesulfonic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluoroheptanesulfonic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorononanesulfonic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorodecanesulfonic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorooctanesulfonamide	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorohexadecanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorooctadecanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorobutanoic acid	ND		2.0	0.80	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluoropentanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
NMeFOSE	ND		2.0	0.50	ng/g		04/30/21 11:17	05/03/21 18:42	1
NMeFOSA	ND		2.0	0.50	ng/g		04/30/21 11:17	05/03/21 18:42	1
NEtFOSE	ND		2.0	0.50	ng/g		04/30/21 11:17	05/03/21 18:42	1
NEtFOSA	ND		2.0	0.50	ng/g		04/30/21 11:17	05/03/21 18:42	1
HFPODA	ND		2.0	0.40	ng/g		04/30/21 11:17	05/03/21 18:42	1
DONA	ND		3.0	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
9Cl-PF3ONS	ND		2.0	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
11Cl-PF3OUdS	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluorododecanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		04/30/21 11:17	05/03/21 18:42	1
Perfluoroundecanoic acid	ND		0.60	0.20	ng/g		04/30/21 11:17	05/03/21 18:42	1
6:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		04/30/21 11:17	05/03/21 18:42	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	0.60	ng/g		04/30/21 11:17	05/03/21 18:42	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	99		10 - 169	04/30/21 11:17	05/03/21 18:42	1
M2-8:2 FTS	127		10 - 178	04/30/21 11:17	05/03/21 18:42	1
M2-6:2 FTS	113		10 - 182	04/30/21 11:17	05/03/21 18:42	1
13C5 PFHxA	92		11 - 138	04/30/21 11:17	05/03/21 18:42	1
13C4 PFHpA	97		15 - 139	04/30/21 11:17	05/03/21 18:42	1
13C8 PFOA	104		21 - 133	04/30/21 11:17	05/03/21 18:42	1
13C9 PFNA	108		15 - 145	04/30/21 11:17	05/03/21 18:42	1
13C6 PFDA	107		21 - 134	04/30/21 11:17	05/03/21 18:42	1
13C7 PFUnA	112		15 - 138	04/30/21 11:17	05/03/21 18:42	1
13C2-PFDoDA	108		28 - 126	04/30/21 11:17	05/03/21 18:42	1

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QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: MB 410-121073/1-B

Matrix: Solid

Analysis Batch: 121732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 121073

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFTeDA	107		10 - 138	04/30/21 11:17	05/03/21 18:42	1
13C3 PFBS	113		23 - 130	04/30/21 11:17	05/03/21 18:42	1
13C3 PFHxS	95		24 - 136	04/30/21 11:17	05/03/21 18:42	1
13C8 PFOS	105		31 - 130	04/30/21 11:17	05/03/21 18:42	1
d3-NMeFOSAA	98		10 - 172	04/30/21 11:17	05/03/21 18:42	1
d5-NEtFOSAA	112		10 - 176	04/30/21 11:17	05/03/21 18:42	1
13C8 FOSA	86		25 - 135	04/30/21 11:17	05/03/21 18:42	1
13C4 PFBA	94		12 - 137	04/30/21 11:17	05/03/21 18:42	1
13C5 PFPeA	92		12 - 135	04/30/21 11:17	05/03/21 18:42	1
d7-N-MeFOSE-M	90		10 - 152	04/30/21 11:17	05/03/21 18:42	1
d3-NMePFOSA	85		10 - 148	04/30/21 11:17	05/03/21 18:42	1
d9-N-EtFOSE-M	91		10 - 157	04/30/21 11:17	05/03/21 18:42	1
d5-NEtPFOSA	78		10 - 151	04/30/21 11:17	05/03/21 18:42	1
13C3 HFPO-DA	82		10 - 152	04/30/21 11:17	05/03/21 18:42	1

Lab Sample ID: LCS 410-121073/2-B

Matrix: Solid

Analysis Batch: 121732

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 121073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Perfluorohexanoic acid	25.0	23.0		ng/g		92	61 - 147
Perfluoroheptanoic acid	25.0	26.7		ng/g		107	61 - 151
Perfluorooctanoic acid	25.0	23.2		ng/g		93	62 - 144
Perfluorononanoic acid	25.0	24.7		ng/g		99	62 - 148
Perfluorodecanoic acid	25.0	25.1		ng/g		100	62 - 142
Perfluorotridecanoic acid	25.0	26.1		ng/g		104	57 - 152
Perfluorotetradecanoic acid	25.0	26.0		ng/g		104	60 - 147
Perfluorobutanesulfonic acid	22.1	20.2		ng/g		91	62 - 137
Perfluorohexanesulfonic acid	22.8	22.8		ng/g		100	57 - 135
Perfluorooctanesulfonic acid	23.1	22.8		ng/g		99	48 - 134
NEtFOSAA	25.0	23.5		ng/g		94	50 - 140
NMeFOSAA	25.0	24.5		ng/g		98	53 - 149
10:2 FTS	24.1	25.2		ng/g		104	42 - 142
Perfluoropentanesulfonic acid	23.5	20.8		ng/g		89	65 - 145
Perfluoroheptanesulfonic acid	23.8	24.1		ng/g		101	67 - 138
Perfluorononanesulfonic acid	24.0	25.3		ng/g		106	63 - 143
Perfluorodecanesulfonic acid	24.1	24.8		ng/g		103	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	25.5		ng/g		105	52 - 145
Perfluorooctanesulfonamide	25.0	23.1		ng/g		92	52 - 132
Perfluorohexadecanoic acid	25.0	22.2		ng/g		89	44 - 161
Perfluorooctadecanoic acid	25.0	23.6		ng/g		94	16 - 175
Perfluorobutanoic acid	25.0	22.3		ng/g		89	50 - 185
Perfluoropentanoic acid	25.0	25.0		ng/g		100	69 - 144
NMeFOSE	25.0	22.3		ng/g		89	47 - 138
NMeFOSA	25.0	23.3		ng/g		93	43 - 134
NEtFOSE	25.0	23.5		ng/g		94	46 - 134
NEtFOSA	25.0	23.0		ng/g		92	48 - 130
HFPODA	25.0	23.9		ng/g		96	29 - 162

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: LCS 410-121073/2-B

Matrix: Solid

Analysis Batch: 121732

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 121073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
DONA	23.6	23.5		ng/g		100	48 - 155	
9CI-PF3ONS	23.3	24.4		ng/g		105	48 - 146	
11CI-PF3OUdS	23.3	24.4		ng/g		105	45 - 145	
Perfluorododecanoic acid	25.0	25.1		ng/g		100	60 - 147	
4:2 Fluorotelomer sulfonic acid	23.4	23.5		ng/g		100	55 - 132	
Perfluoroundecanoic acid	25.0	22.9		ng/g		92	62 - 144	
6:2 Fluorotelomer sulfonic acid	23.7	23.5		ng/g		99	53 - 137	
8:2 Fluorotelomer sulfonic acid	24.0	22.4		ng/g		94	50 - 147	

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	102		10 - 169
M2-8:2 FTS	103		10 - 178
M2-6:2 FTS	104		10 - 182
13C5 PFHxA	96		11 - 138
13C4 PFHpA	94		15 - 139
13C8 PFOA	106		21 - 133
13C9 PFNA	102		15 - 145
13C6 PFDA	102		21 - 134
13C7 PFUnA	104		15 - 138
13C2-PFDoDA	99		28 - 126
13C2 PFTeDA	103		10 - 138
13C3 PFBS	112		23 - 130
13C3 PFHxS	95		24 - 136
13C8 PFOS	99		31 - 130
d3-NMeFOSAA	90		10 - 172
d5-NEtFOSAA	94		10 - 176
13C8 FOSA	95		25 - 135
13C4 PFBA	99		12 - 137
13C5 PFPeA	97		12 - 135
d7-N-MeFOSE-M	100		10 - 152
d3-NMePFOSA	89		10 - 148
d9-N-EtFOSE-M	100		10 - 157
d5-NEtPFOSA	80		10 - 151
13C3 HFPO-DA	98		10 - 152

Lab Sample ID: LCSD 410-121073/3-B

Matrix: Solid

Analysis Batch: 121732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 121073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	Limit	Limit
Perfluorohexanoic acid	25.0	24.9		ng/g		100	61 - 147	8	30	
Perfluoroheptanoic acid	25.0	25.4		ng/g		102	61 - 151	5	30	
Perfluorooctanoic acid	25.0	23.9		ng/g		96	62 - 144	3	30	
Perfluorononanoic acid	25.0	26.5		ng/g		106	62 - 148	7	30	
Perfluorodecanoic acid	25.0	25.9		ng/g		104	62 - 142	3	30	
Perfluorotridecanoic acid	25.0	29.0		ng/g		116	57 - 152	10	30	
Perfluorotetradecanoic acid	25.0	27.5		ng/g		110	60 - 147	6	30	
Perfluorobutanesulfonic acid	22.1	20.8		ng/g		94	62 - 137	3	30	
Perfluorohexanesulfonic acid	22.8	24.0		ng/g		105	57 - 135	5	30	

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: LCSD 410-121073/3-B

Matrix: Solid

Analysis Batch: 121732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 121073

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
		Result	Qualifier				Limits		Limit
Perfluorooctanesulfonic acid	23.1	23.4		ng/g		101	48 - 134	3	30
NEtFOSAA	25.0	24.4		ng/g		97	50 - 140	4	30
NMeFOSAA	25.0	26.7		ng/g		107	53 - 149	9	30
10:2 FTS	24.1	28.0		ng/g		116	42 - 142	10	30
Perfluoropentanesulfonic acid	23.5	22.1		ng/g		94	65 - 145	6	30
Perfluoroheptanesulfonic acid	23.8	24.6		ng/g		104	67 - 138	2	30
Perfluorononanesulfonic acid	24.0	25.3		ng/g		105	63 - 143	0	30
Perfluorodecanesulfonic acid	24.1	24.1		ng/g		100	60 - 142	3	30
Perfluorododecanesulfonic acid (PFDoS)	24.2	25.2		ng/g		104	52 - 145	1	30
Perfluorooctanesulfonamide	25.0	23.8		ng/g		95	52 - 132	3	30
Perfluorohexadecanoic acid	25.0	22.8		ng/g		91	44 - 161	3	30
Perfluorooctadecanoic acid	25.0	24.7		ng/g		99	16 - 175	5	30
Perfluorobutanoic acid	25.0	23.0		ng/g		92	50 - 185	3	30
Perfluoropentanoic acid	25.0	25.8		ng/g		103	69 - 144	3	30
NMeFOSE	25.0	23.1		ng/g		93	47 - 138	4	30
NMeFOSA	25.0	24.2		ng/g		97	43 - 134	4	30
NEtFOSE	25.0	25.1		ng/g		100	46 - 134	6	30
NEtFOSA	25.0	23.2		ng/g		93	48 - 130	1	30
HFPODA	25.0	27.5		ng/g		110	29 - 162	14	30
DONA	23.6	23.3		ng/g		99	48 - 155	1	30
9Cl-PF3ONS	23.3	24.5		ng/g		105	48 - 146	0	30
11Cl-PF3OUdS	23.3	23.6		ng/g		102	45 - 145	3	30
Perfluorododecanoic acid	25.0	26.3		ng/g		105	60 - 147	5	30
4:2 Fluorotelomer sulfonic acid	23.4	25.4		ng/g		109	55 - 132	8	30
Perfluoroundecanoic acid	25.0	25.2		ng/g		101	62 - 144	10	30
6:2 Fluorotelomer sulfonic acid	23.7	23.6		ng/g		100	53 - 137	0	30
8:2 Fluorotelomer sulfonic acid	24.0	21.7		ng/g		90	50 - 147	3	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	93		10 - 169
M2-8:2 FTS	79		10 - 178
M2-6:2 FTS	93		10 - 182
13C5 PFHxA	91		11 - 138
13C4 PFHpA	94		15 - 139
13C8 PFOA	99		21 - 133
13C9 PFNA	90		15 - 145
13C6 PFDA	96		21 - 134
13C7 PFUnA	94		15 - 138
13C2-PFDoDA	95		28 - 126
13C2 PFTeDA	100		10 - 138
13C3 PFBS	101		23 - 130
13C3 PFHxS	90		24 - 136
13C8 PFOS	95		31 - 130
d3-NMeFOSAA	75		10 - 172
d5-NEtFOSAA	83		10 - 176
13C8 FOSA	90		25 - 135
13C4 PFBA	89		12 - 137
13C5 PFPeA	90		12 - 135

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: LCSD 410-121073/3-B

Matrix: Solid

Analysis Batch: 121732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 121073

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
d7-N-MeFOSE-M	87		10 - 152
d3-NMePFOSA	84		10 - 148
d9-N-EtFOSE-M	91		10 - 157
d5-NEtPFOSA	81		10 - 151
13C3 HFPO-DA	83		10 - 152

Lab Sample ID: MB 410-123465/1-B

Matrix: Water

Analysis Batch: 124110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 123465

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluoroheptanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorooctanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorononanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorodecanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorotridecanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorotetradecanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorobutanesulfonic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorohexanesulfonic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorooctanesulfonic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
NEtFOSAA	ND		1500	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
NMeFOSAA	ND		1000	300	ng/L		05/06/21 19:57	05/09/21 20:17	1
10:2 FTS	ND		2500	500	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluoropentanesulfonic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluoroheptanesulfonic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorononanesulfonic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorodecanesulfonic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorooctanesulfonamide	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorohexadecanoic acid	ND		1500	500	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorooctadecanoic acid	ND		1500	500	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorobutanoic acid	ND		2500	1000	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluoropentanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
NMeFOSE	ND		1500	500	ng/L		05/06/21 19:57	05/09/21 20:17	1
NMeFOSA	ND		1500	500	ng/L		05/06/21 19:57	05/09/21 20:17	1
NEtFOSE	ND		1500	500	ng/L		05/06/21 19:57	05/09/21 20:17	1
NEtFOSA	ND		2500	500	ng/L		05/06/21 19:57	05/09/21 20:17	1
HFPODA	1850		1500	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
DONA	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
9Cl-PF3ONS	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
11Cl-PF3OUdS	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluorododecanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
4:2 Fluorotelomer sulfonic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
Perfluoroundecanoic acid	ND		1000	250	ng/L		05/06/21 19:57	05/09/21 20:17	1
6:2 Fluorotelomer sulfonic acid	ND		2500	1000	ng/L		05/06/21 19:57	05/09/21 20:17	1
8:2 Fluorotelomer sulfonic acid	ND		1500	500	ng/L		05/06/21 19:57	05/09/21 20:17	1

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	82		20 - 187	05/06/21 19:57	05/09/21 20:17	1
M2-8:2 FTS	86		34 - 182	05/06/21 19:57	05/09/21 20:17	1
M2-6:2 FTS	101		29 - 189	05/06/21 19:57	05/09/21 20:17	1
13C5 PFHxA	80		31 - 142	05/06/21 19:57	05/09/21 20:17	1
13C4 PFHpA	79		30 - 144	05/06/21 19:57	05/09/21 20:17	1
13C8 PFOA	80		49 - 127	05/06/21 19:57	05/09/21 20:17	1
13C9 PFNA	83		47 - 136	05/06/21 19:57	05/09/21 20:17	1
13C6 PFDA	72		47 - 128	05/06/21 19:57	05/09/21 20:17	1
13C7 PFUnA	73		40 - 135	05/06/21 19:57	05/09/21 20:17	1
13C2-PFDoDA	72		28 - 136	05/06/21 19:57	05/09/21 20:17	1
13C2 PFTeDA	66		10 - 144	05/06/21 19:57	05/09/21 20:17	1
13C3 PFBS	88		19 - 178	05/06/21 19:57	05/09/21 20:17	1
13C3 PFHxS	75		32 - 145	05/06/21 19:57	05/09/21 20:17	1
13C8 PFOS	80		49 - 126	05/06/21 19:57	05/09/21 20:17	1
d3-NMeFOSAA	71		32 - 151	05/06/21 19:57	05/09/21 20:17	1
d5-NEtFOSAA	75		37 - 164	05/06/21 19:57	05/09/21 20:17	1
13C8 FOSA	65		10 - 143	05/06/21 19:57	05/09/21 20:17	1
13C4 PFBA	82		41 - 132	05/06/21 19:57	05/09/21 20:17	1
13C5 PFPeA	73		33 - 155	05/06/21 19:57	05/09/21 20:17	1
d7-N-MeFOSE-M	59		10 - 143	05/06/21 19:57	05/09/21 20:17	1
d3-NMePFOSA	47		10 - 107	05/06/21 19:57	05/09/21 20:17	1
d9-N-EtFOSE-M	60		10 - 142	05/06/21 19:57	05/09/21 20:17	1
d5-NEtPFOSA	41		10 - 108	05/06/21 19:57	05/09/21 20:17	1
13C3 HFPO-DA	56		20 - 153	05/06/21 19:57	05/09/21 20:17	1

Lab Sample ID: LCS 410-123465/3-B

Matrix: Water

Analysis Batch: 124110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 123465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Perfluorohexanoic acid	6400	6960		ng/L		109	66 - 137
Perfluoroheptanoic acid	6400	7740		ng/L		121	66 - 141
Perfluorooctanoic acid	6400	7450		ng/L		116	65 - 136
Perfluorononanoic acid	6400	7320		ng/L		114	65 - 140
Perfluorodecanoic acid	6400	8150		ng/L		127	63 - 137
Perfluorotridecanoic acid	6400	8030		ng/L		126	58 - 146
Perfluorotetradecanoic acid	6400	7480		ng/L		117	64 - 141
Perfluorobutanesulfonic acid	5660	5860		ng/L		104	65 - 132
Perfluorohexanesulfonic acid	5840	6670		ng/L		114	60 - 128
Perfluorooctanesulfonic acid	5920	7110		ng/L		120	51 - 126
NEtFOSAA	6400	6930		ng/L		108	54 - 134
NMeFOSAA	6400	7280		ng/L		114	58 - 143
10:2 FTS	6170	7010		ng/L		114	44 - 141
Perfluoropentanesulfonic acid	6000	6000		ng/L		100	71 - 136
Perfluoroheptanesulfonic acid	6090	6920		ng/L		114	67 - 135
Perfluorononanesulfonic acid	6140	7510		ng/L		122	67 - 137
Perfluorodecanesulfonic acid	6170	7210		ng/L		117	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	6200	6810		ng/L		110	54 - 136
Perfluorooctanesulfonamide	6400	7170		ng/L		112	55 - 130
Perfluorohexadecanoic acid	6400	6470		ng/L		101	52 - 149
Perfluorooctadecanoic acid	6400	6010		ng/L		94	32 - 167

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: LCS 410-123465/3-B

Matrix: Water

Analysis Batch: 124110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 123465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
Perfluorobutanoic acid	6400	6440		ng/L		101	62 - 156	
Perfluoropentanoic acid	6400	7160		ng/L		112	72 - 139	
NMeFOSE	6400	6910		ng/L		108	52 - 131	
NMeFOSA	6400	6160		ng/L		96	49 - 141	
NEtFOSE	6400	7370		ng/L		115	49 - 128	
NEtFOSA	6400	6390		ng/L		100	50 - 136	
HFPODA	6400	8160		ng/L		127	37 - 147	
DONA	6050	6970		ng/L		115	49 - 158	
9Cl-PF3ONS	5950	7030		ng/L		118	52 - 135	
11Cl-PF3OUdS	5950	7040		ng/L		118	45 - 134	
Perfluorododecanoic acid	6400	7800		ng/L		122	63 - 140	
4:2 Fluorotelomer sulfonic acid	5980	7200		ng/L		121	59 - 130	
Perfluoroundecanoic acid	6400	7260		ng/L		113	62 - 138	
6:2 Fluorotelomer sulfonic acid	6070	6790		ng/L		112	57 - 137	
8:2 Fluorotelomer sulfonic acid	6130	6540		ng/L		107	56 - 140	

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	106		20 - 187
M2-8:2 FTS	118		34 - 182
M2-6:2 FTS	126		29 - 189
13C5 PFHxA	103		31 - 142
13C4 PFHpA	102		30 - 144
13C8 PFOA	106		49 - 127
13C9 PFNA	114		47 - 136
13C6 PFDA	98		47 - 128
13C7 PFUnA	103		40 - 135
13C2-PFDoDA	96		28 - 136
13C2 PFTeDA	90		10 - 144
13C3 PFBS	114		19 - 178
13C3 PFHxS	98		32 - 145
13C8 PFOS	104		49 - 126
d3-NMeFOSAA	101		32 - 151
d5-NEtFOSAA	107		37 - 164
13C8 FOSA	88		10 - 143
13C4 PFBA	104		41 - 132
13C5 PFPeA	96		33 - 155
d7-N-MeFOSE-M	85		10 - 143
d3-NMePFOSA	69		10 - 107
d9-N-EtFOSE-M	80		10 - 142
d5-NEtPFOSA	56		10 - 108
13C3 HFPO-DA	78		20 - 153

Lab Sample ID: LCSD 410-123465/4-B

Matrix: Water

Analysis Batch: 124110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 123465

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	Limit	Limit
Perfluorohexanoic acid	6400	6820		ng/L		107	66 - 137	2	30	
Perfluoroheptanoic acid	6400	7470		ng/L		117	66 - 141	4	30	

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: LCSD 410-123465/4-B

Matrix: Water

Analysis Batch: 124110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 123465

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Perfluorooctanoic acid	6400	7350		ng/L		115	65 - 136	1	30	
Perfluorononanoic acid	6400	7090		ng/L		111	65 - 140	3	30	
Perfluorodecanoic acid	6400	7540		ng/L		118	63 - 137	8	30	
Perfluorotridecanoic acid	6400	7600		ng/L		119	58 - 146	5	30	
Perfluorotetradecanoic acid	6400	7550		ng/L		118	64 - 141	1	30	
Perfluorobutanesulfonic acid	5660	5970		ng/L		105	65 - 132	2	30	
Perfluorohexanesulfonic acid	5840	6930		ng/L		119	60 - 128	4	30	
Perfluorooctanesulfonic acid	5920	6990		ng/L		118	51 - 126	2	30	
NEtFOSAA	6400	7300		ng/L		114	54 - 134	5	30	
NMeFOSAA	6400	7950		ng/L		124	58 - 143	9	30	
10:2 FTS	6170	6550		ng/L		106	44 - 141	7	30	
Perfluoropentanesulfonic acid	6000	6200		ng/L		103	71 - 136	3	30	
Perfluoroheptanesulfonic acid	6090	7140		ng/L		117	67 - 135	3	30	
Perfluorononanesulfonic acid	6140	7440		ng/L		121	67 - 137	1	30	
Perfluorodecanesulfonic acid	6170	7360		ng/L		119	61 - 134	2	30	
Perfluorododecanesulfonic acid (PFDoS)	6200	6850		ng/L		111	54 - 136	1	30	
Perfluorooctanesulfonamide	6400	7010		ng/L		110	55 - 130	2	30	
Perfluorohexadecanoic acid	6400	6000		ng/L		94	52 - 149	7	30	
Perfluorooctadecanoic acid	6400	5430		ng/L		85	32 - 167	10	30	
Perfluorobutanoic acid	6400	6400		ng/L		100	62 - 156	0	30	
Perfluoropentanoic acid	6400	7000		ng/L		109	72 - 139	2	30	
NMeFOSE	6400	7120		ng/L		111	52 - 131	3	30	
NMeFOSA	6400	6830		ng/L		107	49 - 141	10	30	
NEtFOSE	6400	7120		ng/L		111	49 - 128	3	30	
NEtFOSA	6400	5860		ng/L		92	50 - 136	9	30	
HFPODA	6400	8380		ng/L		131	37 - 147	3	30	
DONA	6050	6750		ng/L		112	49 - 158	3	30	
9Cl-PF3ONS	5950	6970		ng/L		117	52 - 135	1	30	
11Cl-PF3OUdS	5950	7390		ng/L		124	45 - 134	5	30	
Perfluorododecanoic acid	6400	7440		ng/L		116	63 - 140	5	30	
4:2 Fluorotelomer sulfonic acid	5980	7160		ng/L		120	59 - 130	1	30	
Perfluoroundecanoic acid	6400	7400		ng/L		116	62 - 138	2	30	
6:2 Fluorotelomer sulfonic acid	6070	7160		ng/L		118	57 - 137	5	30	
8:2 Fluorotelomer sulfonic acid	6130	6020		ng/L		98	56 - 140	8	30	

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	104		20 - 187
M2-8:2 FTS	121		34 - 182
M2-6:2 FTS	127		29 - 189
13C5 PFHxA	103		31 - 142
13C4 PFHpA	104		30 - 144
13C8 PFOA	107		49 - 127
13C9 PFNA	106		47 - 136
13C6 PFDA	98		47 - 128
13C7 PFUnA	100		40 - 135
13C2-PFDoDA	99		28 - 136
13C2 PFTeDA	87		10 - 144
13C3 PFBS	113		19 - 178

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: LCSD 410-123465/4-B
Matrix: Water
Analysis Batch: 124110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 123465

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C3 PFHxS	99		32 - 145
13C8 PFOS	104		49 - 126
d3-NMeFOSAA	93		32 - 151
d5-NEtFOSAA	100		37 - 164
13C8 FOSA	73		10 - 143
13C4 PFBA	104		41 - 132
13C5 PFPeA	98		33 - 155
d7-N-MeFOSE-M	54		10 - 143
d3-NMePFOSA	9	*5-	10 - 107
d9-N-EtFOSE-M	53		10 - 142
d5-NEtPFOSA	8	*5-	10 - 108
13C3 HFPO-DA	77		20 - 153

Lab Sample ID: MB 410-125170/1-B
Matrix: Water
Analysis Batch: 125471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 125170

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluoroheptanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorooctanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorononanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorodecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorotridecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorotetradecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorobutanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorohexanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorooctanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
NEtFOSAA	ND		1500	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
NMeFOSAA	ND		1000	300	ng/L		05/11/21 19:13	05/12/21 12:59	1
10:2 FTS	ND		2500	500	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluoropentanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluoroheptanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorononanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorodecanesulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorooctanesulfonamide	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorohexadecanoic acid	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorooctadecanoic acid	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorobutanoic acid	ND		2500	1000	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluoropentanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
NMeFOSE	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 12:59	1
NMeFOSA	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 12:59	1
NEtFOSE	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 12:59	1
NEtFOSA	ND		2500	500	ng/L		05/11/21 19:13	05/12/21 12:59	1
HFPODA	634	J	1500	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
DONA	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
9CI-PF3ONS	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: MB 410-125170/1-B

Matrix: Water

Analysis Batch: 125471

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 125170

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
11Cl-PF3OUdS	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluorododecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
4:2 Fluorotelomer sulfonic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
Perfluoroundecanoic acid	ND		1000	250	ng/L		05/11/21 19:13	05/12/21 12:59	1
6:2 Fluorotelomer sulfonic acid	ND		2500	1000	ng/L		05/11/21 19:13	05/12/21 12:59	1
8:2 Fluorotelomer sulfonic acid	ND		1500	500	ng/L		05/11/21 19:13	05/12/21 12:59	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	86		20 - 187	05/11/21 19:13	05/12/21 12:59	1
M2-8:2 FTS	93		34 - 182	05/11/21 19:13	05/12/21 12:59	1
M2-6:2 FTS	93		29 - 189	05/11/21 19:13	05/12/21 12:59	1
13C5 PFHxA	78		31 - 142	05/11/21 19:13	05/12/21 12:59	1
13C4 PFHpA	75		30 - 144	05/11/21 19:13	05/12/21 12:59	1
13C8 PFOA	81		49 - 127	05/11/21 19:13	05/12/21 12:59	1
13C9 PFNA	73		47 - 136	05/11/21 19:13	05/12/21 12:59	1
13C6 PFDA	76		47 - 128	05/11/21 19:13	05/12/21 12:59	1
13C7 PFUnA	80		40 - 135	05/11/21 19:13	05/12/21 12:59	1
13C2-PFDoDA	80		28 - 136	05/11/21 19:13	05/12/21 12:59	1
13C2 PFTeDA	72		10 - 144	05/11/21 19:13	05/12/21 12:59	1
13C3 PFBS	86		19 - 178	05/11/21 19:13	05/12/21 12:59	1
13C3 PFHxS	77		32 - 145	05/11/21 19:13	05/12/21 12:59	1
13C8 PFOS	77		49 - 126	05/11/21 19:13	05/12/21 12:59	1
d3-NMeFOSAA	76		32 - 151	05/11/21 19:13	05/12/21 12:59	1
d5-NEtFOSAA	81		37 - 164	05/11/21 19:13	05/12/21 12:59	1
13C8 FOSA	54		10 - 143	05/11/21 19:13	05/12/21 12:59	1
13C4 PFBA	76		41 - 132	05/11/21 19:13	05/12/21 12:59	1
13C5 PFPeA	75		33 - 155	05/11/21 19:13	05/12/21 12:59	1
d7-N-MeFOSE-M	8	*5-	10 - 143	05/11/21 19:13	05/12/21 12:59	1
d3-NMePFOSA	2	*5-	10 - 107	05/11/21 19:13	05/12/21 12:59	1
d9-N-EtFOSE-M	9	*5-	10 - 142	05/11/21 19:13	05/12/21 12:59	1
d5-NEtPFOSA	2	*5-	10 - 108	05/11/21 19:13	05/12/21 12:59	1
13C3 HFPO-DA	70		20 - 153	05/11/21 19:13	05/12/21 12:59	1

Lab Sample ID: LCS 410-125170/3-B

Matrix: Water

Analysis Batch: 125471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 125170

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Perfluorohexanoic acid	6400	6100		ng/L		95	66 - 137
Perfluoroheptanoic acid	6400	6670		ng/L		104	66 - 141
Perfluorooctanoic acid	6400	6150		ng/L		96	65 - 136
Perfluorononanoic acid	6400	6790		ng/L		106	65 - 140
Perfluorodecanoic acid	6400	6420		ng/L		100	63 - 137
Perfluorotridecanoic acid	6400	6920		ng/L		108	58 - 146
Perfluorotetradecanoic acid	6400	6750		ng/L		106	64 - 141
Perfluorobutanesulfonic acid	5660	5070		ng/L		89	65 - 132
Perfluorohexanesulfonic acid	5840	5700		ng/L		98	60 - 128
Perfluorooctanesulfonic acid	5920	5920		ng/L		100	51 - 126
NEtFOSAA	6400	5700		ng/L		89	54 - 134

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: LCS 410-125170/3-B

Matrix: Water

Analysis Batch: 125471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 125170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
NMeFOSAA	6400	6700		ng/L		105	58 - 143
10:2 FTS	6170	6040		ng/L		98	44 - 141
Perfluoropentanesulfonic acid	6000	5690		ng/L		95	71 - 136
Perfluoroheptanesulfonic acid	6090	6920		ng/L		114	67 - 135
Perfluorononanesulfonic acid	6140	6740		ng/L		110	67 - 137
Perfluorodecanesulfonic acid	6170	6340		ng/L		103	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	6200	6220		ng/L		100	54 - 136
Perfluorooctanesulfonamide	6400	6920		ng/L		108	55 - 130
Perfluorohexadecanoic acid	6400	5950		ng/L		93	52 - 149
Perfluorooctadecanoic acid	6400	3630		ng/L		57	32 - 167
Perfluorobutanoic acid	6400	7120		ng/L		111	62 - 156
Perfluoropentanoic acid	6400	6920		ng/L		108	72 - 139
NMeFOSE	6400	6920		ng/L		108	52 - 131
NMeFOSA	6400	6150		ng/L		96	49 - 141
NEtFOSE	6400	6740		ng/L		105	49 - 128
NEtFOSA	6400	6420		ng/L		100	50 - 136
HFPODA	6400	6870		ng/L		107	37 - 147
DONA	6050	6430		ng/L		106	49 - 158
9Cl-PF3ONS	5950	6200		ng/L		104	52 - 135
11Cl-PF3OUdS	5950	6000		ng/L		101	45 - 134
Perfluorododecanoic acid	6400	6640		ng/L		104	63 - 140
4:2 Fluorotelomer sulfonic acid	5980	6610		ng/L		111	59 - 130
Perfluoroundecanoic acid	6400	6520		ng/L		102	62 - 138
6:2 Fluorotelomer sulfonic acid	6070	6810		ng/L		112	57 - 137
8:2 Fluorotelomer sulfonic acid	6130	5740		ng/L		94	56 - 140

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	97		20 - 187
M2-8:2 FTS	112		34 - 182
M2-6:2 FTS	101		29 - 189
13C5 PFHxA	92		31 - 142
13C4 PFHpA	85		30 - 144
13C8 PFOA	93		49 - 127
13C9 PFNA	80		47 - 136
13C6 PFDA	90		47 - 128
13C7 PFUnA	93		40 - 135
13C2-PFDoDA	90		28 - 136
13C2 PFTeDA	77		10 - 144
13C3 PFBS	97		19 - 178
13C3 PFHxS	89		32 - 145
13C8 PFOS	86		49 - 126
d3-NMeFOSAA	89		32 - 151
d5-NEtFOSAA	100		37 - 164
13C8 FOSA	55		10 - 143
13C4 PFBA	84		41 - 132
13C5 PFPeA	85		33 - 155
d7-N-MeFOSE-M	11		10 - 143
d3-NMePFOSA	5	*5-	10 - 107

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: LCS 410-125170/3-B

Matrix: Water

Analysis Batch: 125471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 125170

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d9-N-EtFOSE-M	12		10 - 142
d5-NEtPFOSA	4	*5-	10 - 108
13C3 HFPO-DA	79		20 - 153

Lab Sample ID: LCSD 410-125170/4-B

Matrix: Water

Analysis Batch: 125471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 125170

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD	Limit
		Result	Qualifier							
Perfluorohexanoic acid	6400	6080		ng/L		95	66 - 137	0		30
Perfluoroheptanoic acid	6400	6830		ng/L		107	66 - 141	2		30
Perfluorooctanoic acid	6400	6100		ng/L		95	65 - 136	1		30
Perfluorononanoic acid	6400	6870		ng/L		107	65 - 140	1		30
Perfluorodecanoic acid	6400	6520		ng/L		102	63 - 137	2		30
Perfluorotridecanoic acid	6400	6600		ng/L		103	58 - 146	5		30
Perfluorotetradecanoic acid	6400	7040		ng/L		110	64 - 141	4		30
Perfluorobutanesulfonic acid	5660	5070		ng/L		90	65 - 132	0		30
Perfluorohexanesulfonic acid	5840	5660		ng/L		97	60 - 128	1		30
Perfluorooctanesulfonic acid	5920	5770		ng/L		97	51 - 126	3		30
NEtFOSAA	6400	5840		ng/L		91	54 - 134	2		30
NMeFOSAA	6400	6620		ng/L		103	58 - 143	1		30
10:2 FTS	6170	5960		ng/L		97	44 - 141	1		30
Perfluoropentanesulfonic acid	6000	5660		ng/L		94	71 - 136	1		30
Perfluoroheptanesulfonic acid	6090	6350		ng/L		104	67 - 135	9		30
Perfluorononanesulfonic acid	6140	7330		ng/L		119	67 - 137	8		30
Perfluorodecanesulfonic acid	6170	6730		ng/L		109	61 - 134	6		30
Perfluorododecanesulfonic acid (PFDoS)	6200	6820		ng/L		110	54 - 136	9		30
Perfluorooctanesulfonamide	6400	7070		ng/L		110	55 - 130	2		30
Perfluorohexadecanoic acid	6400	4680		ng/L		73	52 - 149	24		30
Perfluorooctadecanoic acid	6400	2340	*1	ng/L		36	32 - 167	43		30
Perfluorobutanoic acid	6400	7110		ng/L		111	62 - 156	0		30
Perfluoropentanoic acid	6400	7200		ng/L		113	72 - 139	4		30
NMeFOSE	6400	5990		ng/L		94	52 - 131	14		30
NMeFOSA	6400	7550		ng/L		118	49 - 141	20		30
NEtFOSE	6400	5620		ng/L		88	49 - 128	18		30
NEtFOSA	6400	8130		ng/L		127	50 - 136	23		30
HFPODA	6400	6630		ng/L		104	37 - 147	4		30
DONA	6050	6280		ng/L		104	49 - 158	2		30
9Cl-PF3ONS	5950	6390		ng/L		107	52 - 135	3		30
11Cl-PF3OUdS	5950	6380		ng/L		107	45 - 134	6		30
Perfluorododecanoic acid	6400	6610		ng/L		103	63 - 140	1		30
4:2 Fluorotelomer sulfonic acid	5980	6620		ng/L		111	59 - 130	0		30
Perfluoroundecanoic acid	6400	7130		ng/L		111	62 - 138	9		30
6:2 Fluorotelomer sulfonic acid	6070	6330		ng/L		104	57 - 137	7		30
8:2 Fluorotelomer sulfonic acid	6130	5830		ng/L		95	56 - 140	2		30

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	92		20 - 187

QC Sample Results

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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

Lab Sample ID: LCSD 410-125170/4-B

Matrix: Water

Analysis Batch: 125471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 125170

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-8:2 FTS	105		34 - 182
M2-6:2 FTS	104		29 - 189
13C5 PFHxA	83		31 - 142
13C4 PFHpA	83		30 - 144
13C8 PFOA	88		49 - 127
13C9 PFNA	81		47 - 136
13C6 PFDA	85		47 - 128
13C7 PFUnA	83		40 - 135
13C2-PFDoDA	86		28 - 136
13C2 PFTeDA	70		10 - 144
13C3 PFBS	96		19 - 178
13C3 PFHxS	88		32 - 145
13C8 PFOS	83		49 - 126
d3-NMeFOSAA	79		32 - 151
d5-NEtFOSAA	85		37 - 164
13C8 FOSA	59		10 - 143
13C4 PFBA	81		41 - 132
13C5 PFPeA	84		33 - 155
d7-N-MeFOSE-M	8	*5-	10 - 143
d3-NMePFOSA	2	*5-	10 - 107
d9-N-EtFOSE-M	11		10 - 142
d5-NEtPFOSA	2	*5-	10 - 108
13C3 HFPO-DA	75		20 - 153

QC Association Summary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

LCMS

Prep Batch: 121073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37033-2	SERESTO Collar	Total/NA	Solid	537 (mod)	
MB 410-121073/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-121073/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-121073/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 121091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37033-2	SERESTO Collar	Total/NA	Solid	Extract Aliquot	121073
MB 410-121073/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	121073
LCS 410-121073/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	121073
LCSD 410-121073/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	121073

Analysis Batch: 121732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37033-2	SERESTO Collar	Total/NA	Solid	537 IDA	121091
MB 410-121073/1-B	Method Blank	Total/NA	Solid	537 IDA	121091
LCS 410-121073/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	121091
LCSD 410-121073/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	121091

Prep Batch: 123465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37033-1 - RE	FRONTLINE PLUS for DOGS	Total/NA	Water	EPA 537 (Mod)	
MB 410-123465/1-B	Method Blank	Total/NA	Water	EPA 537 (Mod)	
LCS 410-123465/3-B	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	
LCSD 410-123465/4-B	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	

Cleanup Batch: 123746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37033-1 - RE	FRONTLINE PLUS for DOGS	Total/NA	Water	Extract Aliquot	123465
MB 410-123465/1-B	Method Blank	Total/NA	Water	Extract Aliquot	123465
LCS 410-123465/3-B	Lab Control Sample	Total/NA	Water	Extract Aliquot	123465
LCSD 410-123465/4-B	Lab Control Sample Dup	Total/NA	Water	Extract Aliquot	123465

Analysis Batch: 124110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37033-1 - RE	FRONTLINE PLUS for DOGS	Total/NA	Water	537 IDA	123746
MB 410-123465/1-B	Method Blank	Total/NA	Water	537 IDA	123746
LCS 410-123465/3-B	Lab Control Sample	Total/NA	Water	537 IDA	123746
LCSD 410-123465/4-B	Lab Control Sample Dup	Total/NA	Water	537 IDA	123746

Prep Batch: 125170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37033-1	FRONTLINE PLUS for DOGS	Total/NA	Water	EPA 537 (Mod)	
MB 410-125170/1-B	Method Blank	Total/NA	Water	EPA 537 (Mod)	
LCS 410-125170/3-B	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	
LCSD 410-125170/4-B	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	

Cleanup Batch: 125189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37033-1	FRONTLINE PLUS for DOGS	Total/NA	Water	Extract Aliquot	125170
MB 410-125170/1-B	Method Blank	Total/NA	Water	Extract Aliquot	125170

QC Association Summary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

LCMS (Continued)

Cleanup Batch: 125189 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-125170/3-B	Lab Control Sample	Total/NA	Water	Extract Aliquot	125170
LCSD 410-125170/4-B	Lab Control Sample Dup	Total/NA	Water	Extract Aliquot	125170

Analysis Batch: 125471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37033-1	FRONTLINE PLUS for DOGS	Total/NA	Water	537 IDA	125189
MB 410-125170/1-B	Method Blank	Total/NA	Water	537 IDA	125189
LCS 410-125170/3-B	Lab Control Sample	Total/NA	Water	537 IDA	125189
LCSD 410-125170/4-B	Lab Control Sample Dup	Total/NA	Water	537 IDA	125189

Lab Chronicle

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

Client Sample ID: FRONTLINE PLUS for DOGS

Lab Sample ID: 410-37033-1

Date Collected: 04/16/21 00:00

Matrix: Water

Date Received: 04/23/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (Mod)	RE		123465	05/06/21 19:57	D5VP	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		123746	05/07/21 11:11	X4HV	ELLE
Total/NA	Analysis	537 IDA	RE	1	124110	05/09/21 21:00	UUV6	ELLE
Total/NA	Prep	EPA 537 (Mod)			125170	05/11/21 19:13	QLP7	ELLE
Total/NA	Cleanup	Extract Aliquot			125189	05/11/21 20:36	QLP7	ELLE
Total/NA	Analysis	537 IDA		1	125471	05/12/21 13:42	UUV6	ELLE

Client Sample ID: SERESTO Collar

Lab Sample ID: 410-37033-2

Date Collected: 04/16/21 00:00

Matrix: Solid

Date Received: 04/23/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			121073	04/30/21 11:17	Q5YX	ELLE
Total/NA	Cleanup	Extract Aliquot			121091	04/30/21 12:12	Q5YX	ELLE
Total/NA	Analysis	537 IDA		1	121732	05/03/21 19:14	UUV6	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
537 IDA	537 (mod)	Solid	10:2 FTS
537 IDA	537 (mod)	Solid	11CI-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	9CI-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	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: PEER

Job ID: 410-37033-1

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	06-30-22
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

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

Accreditation/Certification Summary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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	04-01-22
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	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	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

Accreditation/Certification Summary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

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	04-01-22
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

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Method Summary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

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



Sample Summary

Client: PEER
Project/Site: PEER

Job ID: 410-37033-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-37033-1	FRONTLINE PLUS for DOGS	Water	04/16/21 00:00	04/23/21 09:30	
410-37033-2	SERESTO Collar	Solid	04/16/21 00:00	04/23/21 09:30	

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ATTN: DANA KAUFFMAN

QC

702 Electronic Drive Phone: 215-355-3900
Horsham, PA 19044-0962 Fax: 215-355-7231

Client/Acct. No. PFER / Kyla Bennett
Address PO Box 574

City/State/Zip North Easton, MA 02352
Phone/Fax 508 230 9933

Client Contact: kbennett@peer.org

CHAIN OF CUSTODY

Page ___ of ___

Bill to/Report to (if different) PFER
962 WAYNE AVE, SUITE 610
SILVER SPRING, MD 20910

Sampling Site Address (if different) Include State

e-mail: N/A

P.O. No. PWSID #:

Quote #

e-mail:



410-37033 Chain of Custody

___ Na₂S₂O₃ ___
___ Na OH/Zn acetate pH ___
___ HNO₃ pH ___
___ H₂SO₄ pH ___
___ NaOH pH ___
___ Unpreserved
___ HCl # ___ NH₄Cl # ___ MeOH
___ DI Water

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

ANALYSIS REQUESTED

Field pH, Temp (°C),
DO, Cl₂, Cond. etc.

PROJECT	Collection		G R A B	C O M P	Matrix Code	Number of Containers														
	Date	Military Time				Total	H 2 S O 4	H C l	V i a l i s	H N O 3	N a O H	Z n A c	U N P R E	B A C T						
FRONTLINE PLUS for DOGS	4/16/21			✓	SOL															
SERESTO collar	4/14/21			✓	SOL															

SAMPLED BY: (Name/Company) N/A
TAT: STANDARD (10 DAY) or DUE DATE ___/___/___
Report Format: Standard NJ-RDD SRP-RDD
 Standard + QC Forms EDD
Please call for pricing and availability for rush (<10 day) turnaround and for all but standard reporting format.

Field Parameters Analyzed By:
Initials _____ Date/Time: _____

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME	DELIVERY: <input type="checkbox"/> EQC COURIER <input type="checkbox"/> CLIENT <input type="checkbox"/> UPS <input type="checkbox"/> FEDEX <input type="checkbox"/> OTHER	Custody Seal Number
1. Kyla Bennett	4/19/21	9:50am	1.				
2.			2.				
3.			3.				
4.			4.				
5.			5.	4/23/21	0930		

Rec'd Temp.: N/A Initials: _____ Ice Y/N: (X) Location: _____
COMMENTS: _____
Hazardous: yes/no _____

SR



Login Sample Receipt Checklist

Client: PEER

Job Number: 410-37033-1

Login Number: 37033

List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Rivera-Santa, Julissa

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
Cooler Temperature is recorded.	N/A	
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.	False	No date or time on COC or containers.
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.	False	No date or time on COC or sample containers.
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?	False	Non-environmental matrix, sampler is not applicable.
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	