

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
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Laboratory Job ID: 410-58318-1
Client Project/Site: KI Sawyer WWTP

For:
White Water Associates
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Attn: Bette J Premo



Authorized for release by:
10/18/2021 12:22:40 PM

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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.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

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

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Elizabeth Zanar
Project Manager
10/18/2021 12:22:40 PM

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Definitions/Glossary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Job ID: 410-58318-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-58318-1

Receipt

The samples were received on 10/8/2021 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

PFAS

Method PFC_IDA: Reporting limits were raised for the following samples: Influent (410-58318-2) and Service Center Lift Station (410-58318-6) due to interference from the sample matrix.

Method PFC_IDA: Target analyte(s) were detected in trip blank sample: Trip Blank (410-58318-8). The following action was taken: This sample(s) was re-extracted within the required holding time and target analyte(s) were again detected in the re-extracted trip blank.

Method PFC_IDA: The LCS labeled isotope(s) recovery associated with sample: Field Blank (410-58318-7) is outside the QC acceptance limits. Since the recovery for target analytes is within the limits, the data is reported.

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

General Chemistry

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

Detection Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Effluent

Lab Sample ID: 410-58318-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	8.6		1.9	0.48	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	2.2		1.9	0.48	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	3.6		1.9	0.48	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	0.74	J	1.9	0.48	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	5.9		1.9	0.48	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	5.5		1.9	0.48	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	10		1.9	0.48	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanoic acid	2.2	J	4.8	1.9	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	4.8		1.9	0.48	ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: Influent

Lab Sample ID: 410-58318-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	6.3	J	19	4.9	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorohexanesulfonic acid	7.6	J	19	4.9	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	7.6	J	19	4.9	ng/L	1		EPA 537 (Mod)	Total/NA

Client Sample ID: North Digester

Lab Sample ID: 410-58318-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.59		0.16	0.052	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
NMeFOSAA	0.065	J	0.52	0.052	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonamide	0.073	J	0.16	0.052	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA

Client Sample ID: South Digester

Lab Sample ID: 410-58318-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.23		0.046	0.015	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
NEtFOSAA	0.020	J	0.15	0.015	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
NMeFOSAA	0.028	J	0.15	0.015	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonamide	0.018	J	0.046	0.015	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA

Client Sample ID: Biosolids West

Lab Sample ID: 410-58318-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.011	J I	0.027	0.0090	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	0.017	J	0.027	0.0090	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	0.18		0.027	0.0090	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
NEtFOSAA	0.015	J	0.090	0.0090	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
NMeFOSAA	0.028	J	0.090	0.0090	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonamide	0.0091	J	0.027	0.0090	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	0.042	J	0.14	0.027	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	0.036	J	0.090	0.027	mg/Kg	1	✱	EPA 537 (Mod)	Total/NA

Client Sample ID: Service Center Lift Station

Lab Sample ID: 410-58318-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	76		20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanoic acid	25		20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	55		20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanoic acid	8.0	J	20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorodecanoic acid	5.6	J	20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorobutanesulfonic acid	24		20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Service Center Lift Station (Continued)

Lab Sample ID: 410-58318-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	740		20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanesulfonic acid	51		20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoroheptanesulfonic acid	220		20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorononanesulfonic acid	15	J	20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonamide	14	J	20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluoropentanoic acid	79		20	5.0	ng/L	1		EPA 537 (Mod)	Total/NA
8:2 Fluorotelomer sulfonic acid	210		30	10	ng/L	1		EPA 537 (Mod)	Total/NA
6:2 Fluorotelomer sulfonic acid	1000		50	20	ng/L	1		EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid - DL	23000		200	50	ng/L	10		EPA 537 (Mod)	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 410-58318-7

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 410-58318-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	3.0	J	4.5	1.8	ng/L	1		EPA 537 (Mod)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Effluent

Lab Sample ID: 410-58318-1

Date Collected: 10/06/21 09:12

Matrix: Water

Date Received: 10/08/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	8.6		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluoroheptanoic acid	2.2		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorooctanoic acid	3.6		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorononanoic acid	0.74	J	1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorodecanoic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorotridecanoic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorotetradecanoic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorobutanesulfonic acid	5.9		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorohexanesulfonic acid	5.5		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorooctanesulfonic acid	10		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
NEtFOSAA	ND		2.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
NMeFOSAA	ND		1.9	0.57	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluoropentanesulfonic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluoroheptanesulfonic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorononanesulfonic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorodecanesulfonic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorooctanesulfonamide	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorobutanoic acid	2.2	J	4.8	1.9	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluoropentanoic acid	4.8		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
HFPODA	ND		2.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
DONA	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
9Cl-PF3ONS	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
11Cl-PF3OUdS	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluoroundecanoic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
Perfluorododecanoic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
8:2 Fluorotelomer sulfonic acid	ND		2.9	0.95	ng/L		10/11/21 15:57	10/12/21 19:35	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.48	ng/L		10/11/21 15:57	10/12/21 19:35	1
6:2 Fluorotelomer sulfonic acid	ND		4.8	1.9	ng/L		10/11/21 15:57	10/12/21 19:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	116		20 - 187				10/11/21 15:57	10/12/21 19:35	1
M2-8:2 FTS	108		34 - 182				10/11/21 15:57	10/12/21 19:35	1
M2-6:2 FTS	127		29 - 189				10/11/21 15:57	10/12/21 19:35	1
13C5 PFHxA	85		31 - 142				10/11/21 15:57	10/12/21 19:35	1
13C4 PFHpA	93		30 - 144				10/11/21 15:57	10/12/21 19:35	1
13C8 PFOA	90		49 - 127				10/11/21 15:57	10/12/21 19:35	1
13C9 PFNA	97		47 - 136				10/11/21 15:57	10/12/21 19:35	1
13C6 PFDA	87		47 - 128				10/11/21 15:57	10/12/21 19:35	1
13C7 PFUnA	94		40 - 135				10/11/21 15:57	10/12/21 19:35	1
13C2-PFDoDA	85		28 - 136				10/11/21 15:57	10/12/21 19:35	1
13C2 PFTeDA	69		10 - 144				10/11/21 15:57	10/12/21 19:35	1
13C3 PFBS	106		19 - 178				10/11/21 15:57	10/12/21 19:35	1
13C3 PFHxS	90		32 - 145				10/11/21 15:57	10/12/21 19:35	1
13C8 PFOS	96		49 - 126				10/11/21 15:57	10/12/21 19:35	1
d3-NMeFOSAA	90		32 - 151				10/11/21 15:57	10/12/21 19:35	1
d5-NEtFOSAA	100		37 - 164				10/11/21 15:57	10/12/21 19:35	1
13C8 FOSA	18		10 - 143				10/11/21 15:57	10/12/21 19:35	1
13C4 PFBA	86		41 - 132				10/11/21 15:57	10/12/21 19:35	1
13C5 PFPeA	96		33 - 155				10/11/21 15:57	10/12/21 19:35	1
13C3 HFPO-DA	76		20 - 153				10/11/21 15:57	10/12/21 19:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Influent

Lab Sample ID: 410-58318-2

Date Collected: 10/06/21 09:20

Matrix: Water

Date Received: 10/08/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluoroheptanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorooctanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorononanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorodecanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorotridecanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorotetradecanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorobutanesulfonic acid	6.3	J	19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorohexanesulfonic acid	7.6	J	19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorooctanesulfonic acid	7.6	J	19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
NEtFOSAA	ND		29	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
NMeFOSAA	ND		19	5.8	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluoropentanesulfonic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluoroheptanesulfonic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorononanesulfonic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorodecanesulfonic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorooctanesulfonamide	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorobutanoic acid	ND		49	19	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluoropentanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
HFPODA	ND		29	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
DONA	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
9Cl-PF3ONS	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
11Cl-PF3OUdS	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluoroundecanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
Perfluorododecanoic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
8:2 Fluorotelomer sulfonic acid	ND		29	9.7	ng/L		10/11/21 15:57	10/12/21 19:47	1
4:2 Fluorotelomer sulfonic acid	ND		19	4.9	ng/L		10/11/21 15:57	10/12/21 19:47	1
6:2 Fluorotelomer sulfonic acid	ND		49	19	ng/L		10/11/21 15:57	10/12/21 19:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	126		20 - 187				10/11/21 15:57	10/12/21 19:47	1
M2-8:2 FTS	124		34 - 182				10/11/21 15:57	10/12/21 19:47	1
M2-6:2 FTS	142		29 - 189				10/11/21 15:57	10/12/21 19:47	1
13C5 PFHxA	80		31 - 142				10/11/21 15:57	10/12/21 19:47	1
13C4 PFHpA	90		30 - 144				10/11/21 15:57	10/12/21 19:47	1
13C8 PFOA	86		49 - 127				10/11/21 15:57	10/12/21 19:47	1
13C9 PFNA	95		47 - 136				10/11/21 15:57	10/12/21 19:47	1
13C6 PFDA	90		47 - 128				10/11/21 15:57	10/12/21 19:47	1
13C7 PFUnA	94		40 - 135				10/11/21 15:57	10/12/21 19:47	1
13C2-PFDoDA	72		28 - 136				10/11/21 15:57	10/12/21 19:47	1
13C2 PFTeDA	44		10 - 144				10/11/21 15:57	10/12/21 19:47	1
13C3 PFBS	90		19 - 178				10/11/21 15:57	10/12/21 19:47	1
13C3 PFHxS	79		32 - 145				10/11/21 15:57	10/12/21 19:47	1
13C8 PFOS	97		49 - 126				10/11/21 15:57	10/12/21 19:47	1
d3-NMeFOSAA	90		32 - 151				10/11/21 15:57	10/12/21 19:47	1
d5-NEtFOSAA	90		37 - 164				10/11/21 15:57	10/12/21 19:47	1
13C8 FOSA	96		10 - 143				10/11/21 15:57	10/12/21 19:47	1
13C4 PFBA	84		41 - 132				10/11/21 15:57	10/12/21 19:47	1
13C5 PFPeA	83		33 - 155				10/11/21 15:57	10/12/21 19:47	1
13C3 HFPO-DA	75		20 - 153				10/11/21 15:57	10/12/21 19:47	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: North Digester

Lab Sample ID: 410-58318-3

Date Collected: 10/06/21 10:00

Matrix: Solid

Date Received: 10/08/21 11:00

Percent Solids: 0.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluoroheptanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorooctanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorononanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorodecanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorotridecanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorotetradecanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorobutanesulfonic acid	ND		0.52	0.10	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorohexanesulfonic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorooctanesulfonic acid	0.59		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
NEtFOSAA	ND		0.52	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
NMeFOSAA	0.065	J	0.52	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluoropentanesulfonic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluoroheptanesulfonic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorononanesulfonic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorodecanesulfonic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorooctanesulfonamide	0.073	J	0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorobutanoic acid	ND		0.52	0.21	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluoropentanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
HFODA	ND		0.52	0.10	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
DONA	ND		0.78	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
9Cl-PF3ONS	ND		0.52	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
11Cl-PF3OUdS	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluoroundecanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
Perfluorododecanoic acid	ND		0.16	0.052	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
8:2 Fluorotelomer sulfonic acid	ND		0.78	0.16	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
4:2 Fluorotelomer sulfonic acid	ND		0.52	0.16	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1
6:2 Fluorotelomer sulfonic acid	ND		0.52	0.16	mg/Kg	✱	10/12/21 21:42	10/14/21 05:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	84		10 - 169	10/12/21 21:42	10/14/21 05:13	1
M2-8:2 FTS	84		10 - 178	10/12/21 21:42	10/14/21 05:13	1
M2-6:2 FTS	80		10 - 182	10/12/21 21:42	10/14/21 05:13	1
13C5 PFHxA	67		11 - 138	10/12/21 21:42	10/14/21 05:13	1
13C4 PFHpA	64		15 - 139	10/12/21 21:42	10/14/21 05:13	1
13C8 PFOA	64		21 - 133	10/12/21 21:42	10/14/21 05:13	1
13C9 PFNA	62		15 - 145	10/12/21 21:42	10/14/21 05:13	1
13C6 PFDA	66		21 - 134	10/12/21 21:42	10/14/21 05:13	1
13C7 PFUnA	71		15 - 138	10/12/21 21:42	10/14/21 05:13	1
13C2-PFDoDA	61		28 - 126	10/12/21 21:42	10/14/21 05:13	1
13C2 PFTeDA	63		10 - 138	10/12/21 21:42	10/14/21 05:13	1
13C3 PFBS	61		23 - 130	10/12/21 21:42	10/14/21 05:13	1
13C3 PFHxS	61		24 - 136	10/12/21 21:42	10/14/21 05:13	1
13C8 PFOS	62		31 - 130	10/12/21 21:42	10/14/21 05:13	1
d3-NMeFOSAA	74		10 - 172	10/12/21 21:42	10/14/21 05:13	1
d5-NEtFOSAA	83		10 - 176	10/12/21 21:42	10/14/21 05:13	1
13C8 FOSA	69		25 - 135	10/12/21 21:42	10/14/21 05:13	1
13C4 PFBA	61		12 - 137	10/12/21 21:42	10/14/21 05:13	1
13C5 PFPeA	61		12 - 135	10/12/21 21:42	10/14/21 05:13	1
13C3 HFPO-DA	70		10 - 152	10/12/21 21:42	10/14/21 05:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: North Digester

Lab Sample ID: 410-58318-3

Date Collected: 10/06/21 10:00

Matrix: Solid

Date Received: 10/08/21 11:00

Percent Solids: 0.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	99.6		1.0	1.0	%			10/08/21 17:36	1

Client Sample ID: South Digester

Lab Sample ID: 410-58318-4

Date Collected: 10/06/21 10:10

Matrix: Solid

Date Received: 10/08/21 11:00

Percent Solids: 1.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluoroheptanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorooctanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorononanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorodecanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorotridecanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorotetradecanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorobutanesulfonic acid	ND		0.15	0.031	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorohexanesulfonic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorooctanesulfonic acid	0.23		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
NEtFOSAA	0.020	J	0.15	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
NMeFOSAA	0.028	J	0.15	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluoropentanesulfonic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluoroheptanesulfonic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorononanesulfonic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorodecanesulfonic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorooctanesulfonamide	0.018	J	0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorobutanoic acid	ND		0.15	0.062	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluoropentanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
HFPODA	ND		0.15	0.031	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
DONA	ND		0.23	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
9Cl-PF3ONS	ND		0.15	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
11Cl-PF3OUdS	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluoroundecanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
Perfluorododecanoic acid	ND		0.046	0.015	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
8:2 Fluorotelomer sulfonic acid	ND		0.23	0.046	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
4:2 Fluorotelomer sulfonic acid	ND		0.15	0.046	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1
6:2 Fluorotelomer sulfonic acid	ND		0.15	0.046	mg/Kg	✱	10/12/21 21:42	10/14/21 05:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	89		10 - 169	10/12/21 21:42	10/14/21 05:23	1
M2-8:2 FTS	99		10 - 178	10/12/21 21:42	10/14/21 05:23	1
M2-6:2 FTS	91		10 - 182	10/12/21 21:42	10/14/21 05:23	1
13C5 PFHxA	66		11 - 138	10/12/21 21:42	10/14/21 05:23	1
13C4 PFHpA	65		15 - 139	10/12/21 21:42	10/14/21 05:23	1
13C8 PFOA	63		21 - 133	10/12/21 21:42	10/14/21 05:23	1
13C9 PFNA	74		15 - 145	10/12/21 21:42	10/14/21 05:23	1
13C6 PFDA	72		21 - 134	10/12/21 21:42	10/14/21 05:23	1
13C7 PFUnA	72		15 - 138	10/12/21 21:42	10/14/21 05:23	1
13C2-PFDoDA	65		28 - 126	10/12/21 21:42	10/14/21 05:23	1
13C2 PFTeDA	59		10 - 138	10/12/21 21:42	10/14/21 05:23	1
13C3 PFBS	69		23 - 130	10/12/21 21:42	10/14/21 05:23	1
13C3 PFHxS	63		24 - 136	10/12/21 21:42	10/14/21 05:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: South Digester

Lab Sample ID: 410-58318-4

Date Collected: 10/06/21 10:10

Matrix: Solid

Date Received: 10/08/21 11:00

Percent Solids: 1.2

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	74		31 - 130	10/12/21 21:42	10/14/21 05:23	1
d3-NMeFOSAA	76		10 - 172	10/12/21 21:42	10/14/21 05:23	1
d5-NEtFOSAA	92		10 - 176	10/12/21 21:42	10/14/21 05:23	1
13C8 FOSA	72		25 - 135	10/12/21 21:42	10/14/21 05:23	1
13C4 PFBA	68		12 - 137	10/12/21 21:42	10/14/21 05:23	1
13C5 PFPeA	68		12 - 135	10/12/21 21:42	10/14/21 05:23	1
13C3 HFPO-DA	68		10 - 152	10/12/21 21:42	10/14/21 05:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98.8		1.0	1.0	%			10/08/21 17:36	1

Client Sample ID: Biosolids West

Lab Sample ID: 410-58318-5

Date Collected: 10/06/21 10:15

Matrix: Solid

Date Received: 10/08/21 11:00

Percent Solids: 2.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	0.011	J I	0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluoroheptanoic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorooctanoic acid	0.017	J	0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorononanoic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorodecanoic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorotridecanoic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorotetradecanoic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorobutanesulfonic acid	ND		0.090	0.018	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorohexanesulfonic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorooctanesulfonic acid	0.18		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
NEtFOSAA	0.015	J	0.090	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
NMeFOSAA	0.028	J	0.090	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluoropentanesulfonic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluoroheptanesulfonic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorononanesulfonic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorodecanesulfonic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorooctanesulfonamide	0.0091	J	0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorobutanoic acid	ND		0.090	0.036	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluoropentanoic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
HFPODA	ND		0.090	0.018	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
DONA	ND		0.14	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
9Cl-PF3ONS	ND		0.090	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
11Cl-PF3OUdS	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluoroundecanoic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Perfluorododecanoic acid	ND		0.027	0.0090	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
8:2 Fluorotelomer sulfonic acid	0.042	J	0.14	0.027	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
4:2 Fluorotelomer sulfonic acid	ND		0.090	0.027	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
6:2 Fluorotelomer sulfonic acid	0.036	J	0.090	0.027	mg/Kg	☼	10/12/21 21:42	10/14/21 05:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	98		10 - 169				10/12/21 21:42	10/14/21 05:34	1
M2-8:2 FTS	100		10 - 178				10/12/21 21:42	10/14/21 05:34	1
M2-6:2 FTS	103		10 - 182				10/12/21 21:42	10/14/21 05:34	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Biosolids West

Lab Sample ID: 410-58318-5

Date Collected: 10/06/21 10:15

Matrix: Solid

Date Received: 10/08/21 11:00

Percent Solids: 2.2

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	72		11 - 138	10/12/21 21:42	10/14/21 05:34	1
13C4 PFHpA	70		15 - 139	10/12/21 21:42	10/14/21 05:34	1
13C8 PFOA	72		21 - 133	10/12/21 21:42	10/14/21 05:34	1
13C9 PFNA	84		15 - 145	10/12/21 21:42	10/14/21 05:34	1
13C6 PFDA	77		21 - 134	10/12/21 21:42	10/14/21 05:34	1
13C7 PFUnA	76		15 - 138	10/12/21 21:42	10/14/21 05:34	1
13C2-PFDoDA	67		28 - 126	10/12/21 21:42	10/14/21 05:34	1
13C2 PFTeDA	64		10 - 138	10/12/21 21:42	10/14/21 05:34	1
13C3 PFBS	79		23 - 130	10/12/21 21:42	10/14/21 05:34	1
13C3 PFHxS	68		24 - 136	10/12/21 21:42	10/14/21 05:34	1
13C8 PFOS	73		31 - 130	10/12/21 21:42	10/14/21 05:34	1
d3-NMeFOSAA	78		10 - 172	10/12/21 21:42	10/14/21 05:34	1
d5-NEtFOSAA	87		10 - 176	10/12/21 21:42	10/14/21 05:34	1
13C8 FOSA	76		25 - 135	10/12/21 21:42	10/14/21 05:34	1
13C4 PFBA	74		12 - 137	10/12/21 21:42	10/14/21 05:34	1
13C5 PFPeA	77		12 - 135	10/12/21 21:42	10/14/21 05:34	1
13C3 HFPO-DA	78		10 - 152	10/12/21 21:42	10/14/21 05:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	97.8		1.0	1.0	%			10/08/21 17:36	1

Client Sample ID: Service Center Lift Station

Lab Sample ID: 410-58318-6

Date Collected: 10/06/21 11:00

Matrix: Water

Date Received: 10/08/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	76		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluoroheptanoic acid	25		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorooctanoic acid	55		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorononanoic acid	8.0	J	20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorodecanoic acid	5.6	J	20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorotridecanoic acid	ND		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorotetradecanoic acid	ND		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorobutanesulfonic acid	24		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorohexanesulfonic acid	740		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
NEtFOSAA	ND		30	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
NMeFOSAA	ND		20	6.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluoropentanesulfonic acid	51		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluoroheptanesulfonic acid	220		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorononanesulfonic acid	15	J	20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorodecanesulfonic acid	ND		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorooctanesulfonamide	14	J	20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorobutanoic acid	ND		50	20	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluoropentanoic acid	79		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
HFPODA	ND		30	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
DONA	ND		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
9Cl-PF3ONS	ND		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
11Cl-PF3OUdS	ND		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Service Center Lift Station

Lab Sample ID: 410-58318-6

Date Collected: 10/06/21 11:00

Matrix: Water

Date Received: 10/08/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid	ND		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
Perfluorododecanoic acid	ND		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
8:2 Fluorotelomer sulfonic acid	210		30	10	ng/L		10/11/21 15:57	10/13/21 00:57	1
4:2 Fluorotelomer sulfonic acid	ND		20	5.0	ng/L		10/11/21 15:57	10/13/21 00:57	1
6:2 Fluorotelomer sulfonic acid	1000		50	20	ng/L		10/11/21 15:57	10/13/21 00:57	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	140		20 - 187				10/11/21 15:57	10/13/21 00:57	1
M2-8:2 FTS	110		34 - 182				10/11/21 15:57	10/13/21 00:57	1
M2-6:2 FTS	140		29 - 189				10/11/21 15:57	10/13/21 00:57	1
13C5 PFHxA	86		31 - 142				10/11/21 15:57	10/13/21 00:57	1
13C4 PFHpA	84		30 - 144				10/11/21 15:57	10/13/21 00:57	1
13C8 PFOA	83		49 - 127				10/11/21 15:57	10/13/21 00:57	1
13C9 PFNA	113		47 - 136				10/11/21 15:57	10/13/21 00:57	1
13C6 PFDA	90		47 - 128				10/11/21 15:57	10/13/21 00:57	1
13C7 PFUnA	104		40 - 135				10/11/21 15:57	10/13/21 00:57	1
13C2-PFDoDA	43		28 - 136				10/11/21 15:57	10/13/21 00:57	1
13C2 PFTeDA	35		10 - 144				10/11/21 15:57	10/13/21 00:57	1
13C3 PFBS	87		19 - 178				10/11/21 15:57	10/13/21 00:57	1
13C3 PFHxS	79		32 - 145				10/11/21 15:57	10/13/21 00:57	1
13C8 PFOS	89		49 - 126				10/11/21 15:57	10/13/21 00:57	1
d3-NMeFOSAA	122		32 - 151				10/11/21 15:57	10/13/21 00:57	1
d5-NEtFOSAA	138		37 - 164				10/11/21 15:57	10/13/21 00:57	1
13C8 FOSA	106		10 - 143				10/11/21 15:57	10/13/21 00:57	1
13C4 PFBA	81		41 - 132				10/11/21 15:57	10/13/21 00:57	1
13C5 PFPeA	82		33 - 155				10/11/21 15:57	10/13/21 00:57	1
13C3 HFPO-DA	59		20 - 153				10/11/21 15:57	10/13/21 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	23000		200	50	ng/L		10/11/21 15:57	10/13/21 01:08	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOS	93		49 - 126				10/11/21 15:57	10/13/21 01:08	10

Client Sample ID: Field Blank

Lab Sample ID: 410-58318-7

Date Collected: 10/06/21 09:10

Matrix: Water

Date Received: 10/08/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluoroheptanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorooctanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorononanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorodecanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorobutanesulfonic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorohexanesulfonic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorooctanesulfonic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
NEtFOSAA	ND		2.7	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Field Blank

Lab Sample ID: 410-58318-7

Date Collected: 10/06/21 09:10

Matrix: Water

Date Received: 10/08/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		1.8	0.55	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluoropentanesulfonic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluoroheptanesulfonic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorononanesulfonic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorodecanesulfonic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorooctanesulfonamide	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorobutanoic acid	ND		4.5	1.8	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluoropentanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
HFPODA	ND		2.7	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
DONA	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
9Cl-PF3ONS	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
11Cl-PF3OUdS	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
8:2 Fluorotelomer sulfonic acid	ND		2.7	0.91	ng/L		10/13/21 17:37	10/14/21 20:07	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.45	ng/L		10/13/21 17:37	10/14/21 20:07	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	1.8	ng/L		10/13/21 17:37	10/14/21 20:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	135		20 - 187	10/13/21 17:37	10/14/21 20:07	1
M2-8:2 FTS	130		34 - 182	10/13/21 17:37	10/14/21 20:07	1
M2-6:2 FTS	127		29 - 189	10/13/21 17:37	10/14/21 20:07	1
13C5 PFHxA	115		31 - 142	10/13/21 17:37	10/14/21 20:07	1
13C4 PFHpA	117		30 - 144	10/13/21 17:37	10/14/21 20:07	1
13C8 PFOA	112		49 - 127	10/13/21 17:37	10/14/21 20:07	1
13C9 PFNA	121		47 - 136	10/13/21 17:37	10/14/21 20:07	1
13C6 PFDA	117		47 - 128	10/13/21 17:37	10/14/21 20:07	1
13C7 PFUnA	117		40 - 135	10/13/21 17:37	10/14/21 20:07	1
13C2-PFDoDA	113		28 - 136	10/13/21 17:37	10/14/21 20:07	1
13C2 PFTeDA	105		10 - 144	10/13/21 17:37	10/14/21 20:07	1
13C3 PFBS	113		19 - 178	10/13/21 17:37	10/14/21 20:07	1
13C3 PFHxS	110		32 - 145	10/13/21 17:37	10/14/21 20:07	1
13C8 PFOS	123		49 - 126	10/13/21 17:37	10/14/21 20:07	1
d3-NMeFOSAA	116		32 - 151	10/13/21 17:37	10/14/21 20:07	1
d5-NeFOSAA	120		37 - 164	10/13/21 17:37	10/14/21 20:07	1
13C8 FOSA	109		10 - 143	10/13/21 17:37	10/14/21 20:07	1
13C4 PFBA	112		41 - 132	10/13/21 17:37	10/14/21 20:07	1
13C5 PFPeA	109		33 - 155	10/13/21 17:37	10/14/21 20:07	1
13C3 HFPO-DA	131		20 - 153	10/13/21 17:37	10/14/21 20:07	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-58318-8

Date Collected: 10/06/21 11:30

Matrix: Water

Date Received: 10/08/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluoroheptanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorooctanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorononanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorodecanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-58318-8

Date Collected: 10/06/21 11:30

Matrix: Water

Date Received: 10/08/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorobutanesulfonic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorohexanesulfonic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorooctanesulfonic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
NEtFOSAA	ND		2.7	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
NMeFOSAA	ND		1.8	0.54	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluoropentanesulfonic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluoroheptanesulfonic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorononanesulfonic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorodecanesulfonic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorooctanesulfonamide	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorobutanoic acid	3.0	J	4.5	1.8	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluoropentanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
HFPODA	ND		2.7	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
DONA	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
9Cl-PF3ONS	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
11Cl-PF3OUdS	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
8:2 Fluorotelomer sulfonic acid	ND		2.7	0.90	ng/L		10/11/21 15:57	10/12/21 20:20	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.45	ng/L		10/11/21 15:57	10/12/21 20:20	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	1.8	ng/L		10/11/21 15:57	10/12/21 20:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	81		20 - 187	10/11/21 15:57	10/12/21 20:20	1
M2-8:2 FTS	122		34 - 182	10/11/21 15:57	10/12/21 20:20	1
M2-6:2 FTS	121		29 - 189	10/11/21 15:57	10/12/21 20:20	1
13C5 PFHxA	77		31 - 142	10/11/21 15:57	10/12/21 20:20	1
13C4 PFHpA	54		30 - 144	10/11/21 15:57	10/12/21 20:20	1
13C8 PFOA	89		49 - 127	10/11/21 15:57	10/12/21 20:20	1
13C9 PFNA	105		47 - 136	10/11/21 15:57	10/12/21 20:20	1
13C6 PFDA	98		47 - 128	10/11/21 15:57	10/12/21 20:20	1
13C7 PFUnA	105		40 - 135	10/11/21 15:57	10/12/21 20:20	1
13C2-PFDoDA	98		28 - 136	10/11/21 15:57	10/12/21 20:20	1
13C2 PFTeDA	98		10 - 144	10/11/21 15:57	10/12/21 20:20	1
13C3 PFBS	96		19 - 178	10/11/21 15:57	10/12/21 20:20	1
13C3 PFHxS	65		32 - 145	10/11/21 15:57	10/12/21 20:20	1
13C8 PFOS	104		49 - 126	10/11/21 15:57	10/12/21 20:20	1
d3-NMeFOSAA	104		32 - 151	10/11/21 15:57	10/12/21 20:20	1
d5-NEtFOSAA	108		37 - 164	10/11/21 15:57	10/12/21 20:20	1
13C8 FOSA	98		10 - 143	10/11/21 15:57	10/12/21 20:20	1
13C4 PFBA	96		41 - 132	10/11/21 15:57	10/12/21 20:20	1
13C5 PFPeA	90		33 - 155	10/11/21 15:57	10/12/21 20:20	1
13C3 HFPO-DA	94		20 - 153	10/11/21 15:57	10/12/21 20:20	1

Isotope Dilution Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Method: EPA 537 (Mod) - 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)
410-58318-3	North Digester	84	84	80	67	64	64	62	66
410-58318-4	South Digester	89	99	91	66	65	63	74	72
410-58318-5	Biosolids West	98	100	103	72	70	72	84	77
LCS 410-181984/2-B	Lab Control Sample	87	92	89	83	79	81	80	86
LCSD 410-181984/3-B	Lab Control Sample Dup	87	85	85	79	75	80	80	84
MB 410-181984/1-B	Method Blank	91	96	99	81	79	86	80	86
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (15-138)	PFDODA (28-126)	PFTDA (10-138)	C3PFBS (23-130)	C3PFHS (24-136)	C8PFOS (31-130)	d3NMFOS (10-172)	d5NEFOS (10-176)
410-58318-3	North Digester	71	61	63	61	61	62	74	83
410-58318-4	South Digester	72	65	59	69	63	74	76	92
410-58318-5	Biosolids West	76	67	64	79	68	73	78	87
LCS 410-181984/2-B	Lab Control Sample	97	89	89	86	80	86	85	85
LCSD 410-181984/3-B	Lab Control Sample Dup	88	84	87	82	79	87	81	78
MB 410-181984/1-B	Method Blank	96	92	88	82	79	83	87	93
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-135)	PFBA (12-137)	PFPeA (12-135)	HFPODA (10-152)				
410-58318-3	North Digester	69	61	61	70				
410-58318-4	South Digester	72	68	68	68				
410-58318-5	Biosolids West	76	74	77	78				
LCS 410-181984/2-B	Lab Control Sample	97	82	84	86				
LCSD 410-181984/3-B	Lab Control Sample Dup	93	79	78	72				
MB 410-181984/1-B	Method Blank	103	77	78	89				

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
 HFPODA = 13C3 HFPO-DA

Isotope Dilution Summary

Client: White Water Associates

Job ID: 410-58318-1

Project/Site: KI Sawyer WWTP

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-187)	M282FTS (34-182)	M262FTS (29-189)	13C5PHA (31-142)	C4PFHA (30-144)	C8PFOA (49-127)	C9PFNA (47-136)	C6PFDA (47-128)
410-58318-1	Effluent	116	108	127	85	93	90	97	87
410-58318-2	Influent	126	124	142	80	90	86	95	90
410-58318-6	Service Center Lift Station	140	110	140	86	84	83	113	90
410-58318-6 - DL	Service Center Lift Station								
410-58318-7	Field Blank	135	130	127	115	117	112	121	117
410-58318-8	Trip Blank	81	122	121	77	54	89	105	98
LCS 410-181432/2-A	Lab Control Sample	100	99	102	118	112	108	92	111
LCS 410-182434/2-A	Lab Control Sample	139	143	139	122	124	124	130	129 *5+
LCSD 410-181432/3-A	Lab Control Sample Dup	88	79	88	103	99	94	75	90
LCSD 410-182434/3-A	Lab Control Sample Dup	119	127	119	103	107	106	108	108
MB 410-181432/1-A	Method Blank	91	84	91	114	110	97	85	98
MB 410-182434/1-A	Method Blank	144	137	137	124	122	121	121	119

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (40-135)	PFDODA (28-136)	PFTDA (10-144)	C3PFBS (19-178)	C3PFHS (32-145)	C8PFOS (49-126)	d3NMFOS (32-151)	d5NEFOS (37-164)
410-58318-1	Effluent	94	85	69	106	90	96	90	100
410-58318-2	Influent	94	72	44	90	79	97	90	90
410-58318-6	Service Center Lift Station	104	43	35	87	79	89	122	138
410-58318-6 - DL	Service Center Lift Station						93		
410-58318-7	Field Blank	117	113	105	113	110	123	116	120
410-58318-8	Trip Blank	105	98	98	96	65	104	104	108
LCS 410-181432/2-A	Lab Control Sample	101	106	111	109	117	109	94	96
LCS 410-182434/2-A	Lab Control Sample	123	124	120	121	122	127 *5+	129	135
LCSD 410-181432/3-A	Lab Control Sample Dup	87	90	94	92	102	94	82	82
LCSD 410-182434/3-A	Lab Control Sample Dup	110	104	100	104	101	112	111	117
MB 410-181432/1-A	Method Blank	93	93	98	99	109	99	86	90
MB 410-182434/1-A	Method Blank	116	116	112	112	118	125	119	127

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	PFOSA (10-143)	PFBA (41-132)	PFPeA (33-155)	HFPODA (20-153)
410-58318-1	Effluent	18	86	96	76
410-58318-2	Influent	96	84	83	75
410-58318-6	Service Center Lift Station	106	81	82	59
410-58318-6 - DL	Service Center Lift Station				
410-58318-7	Field Blank	109	112	109	131
410-58318-8	Trip Blank	98	96	90	94
LCS 410-181432/2-A	Lab Control Sample	69	105	100	114
LCS 410-182434/2-A	Lab Control Sample	118	119	119	124
LCSD 410-181432/3-A	Lab Control Sample Dup	56	88	84	87
LCSD 410-182434/3-A	Lab Control Sample Dup	101	105	105	110
MB 410-181432/1-A	Method Blank	65	97	93	99
MB 410-182434/1-A	Method Blank	110	114	112	109

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA

Isotope Dilution Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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
HFPODA = 13C3 HFPO-DA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: MB 410-181432/1-A

Matrix: Water

Analysis Batch: 181614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 181432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluoroheptanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorooctanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorobutanesulfonic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorohexanesulfonic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
NEtFOSAA	ND		3.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
NMeFOSAA	ND		2.0	0.60	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluoroheptanesulfonic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorononanesulfonic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorobutanoic acid	ND		5.0	2.0	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluoropentanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
HFPODA	ND		3.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
DONA	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
9CI-PF3ONS	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
11CI-PF3OUdS	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	1.0	ng/L		10/11/21 15:57	10/12/21 11:38	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.50	ng/L		10/11/21 15:57	10/12/21 11:38	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.0	ng/L		10/11/21 15:57	10/12/21 11:38	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	91		20 - 187	10/11/21 15:57	10/12/21 11:38	1
M2-8:2 FTS	84		34 - 182	10/11/21 15:57	10/12/21 11:38	1
M2-6:2 FTS	91		29 - 189	10/11/21 15:57	10/12/21 11:38	1
13C5 PFHxA	114		31 - 142	10/11/21 15:57	10/12/21 11:38	1
13C4 PFHpA	110		30 - 144	10/11/21 15:57	10/12/21 11:38	1
13C8 PFOA	97		49 - 127	10/11/21 15:57	10/12/21 11:38	1
13C9 PFNA	85		47 - 136	10/11/21 15:57	10/12/21 11:38	1
13C6 PFDA	98		47 - 128	10/11/21 15:57	10/12/21 11:38	1
13C7 PFUnA	93		40 - 135	10/11/21 15:57	10/12/21 11:38	1
13C2-PFDoDA	93		28 - 136	10/11/21 15:57	10/12/21 11:38	1
13C2 PFTeDA	98		10 - 144	10/11/21 15:57	10/12/21 11:38	1
13C3 PFBS	99		19 - 178	10/11/21 15:57	10/12/21 11:38	1
13C3 PFHxS	109		32 - 145	10/11/21 15:57	10/12/21 11:38	1
13C8 PFOS	99		49 - 126	10/11/21 15:57	10/12/21 11:38	1
d3-NMeFOSAA	86		32 - 151	10/11/21 15:57	10/12/21 11:38	1
d5-NEtFOSAA	90		37 - 164	10/11/21 15:57	10/12/21 11:38	1
13C8 FOSA	65		10 - 143	10/11/21 15:57	10/12/21 11:38	1
13C4 PFBA	97		41 - 132	10/11/21 15:57	10/12/21 11:38	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: MB 410-181432/1-A

Matrix: Water

Analysis Batch: 181614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 181432

Isotope Dilution	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	93		33 - 155	10/11/21 15:57	10/12/21 11:38	1
13C3 HFPO-DA	99		20 - 153	10/11/21 15:57	10/12/21 11:38	1

Lab Sample ID: LCS 410-181432/2-A

Matrix: Water

Analysis Batch: 181614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.6	23.6		ng/L		92	66 - 137
Perfluoroheptanoic acid	25.6	24.5		ng/L		96	66 - 141
Perfluorooctanoic acid	25.6	23.5		ng/L		92	65 - 136
Perfluorononanoic acid	25.6	22.6		ng/L		88	65 - 140
Perfluorodecanoic acid	25.6	21.0		ng/L		82	63 - 137
Perfluorotridecanoic acid	25.6	24.5		ng/L		96	58 - 146
Perfluorotetradecanoic acid	25.6	23.5		ng/L		92	64 - 141
Perfluorobutanesulfonic acid	22.7	21.6		ng/L		95	65 - 132
Perfluorohexanesulfonic acid	23.3	22.9		ng/L		98	60 - 128
Perfluorooctanesulfonic acid	23.7	20.7		ng/L		87	51 - 126
NEtFOSAA	25.6	22.5		ng/L		88	54 - 134
NMeFOSAA	25.6	22.5		ng/L		88	58 - 143
Perfluoropentanesulfonic acid	24.0	22.4		ng/L		93	71 - 136
Perfluoroheptanesulfonic acid	24.4	25.1		ng/L		103	67 - 135
Perfluorononanesulfonic acid	24.6	21.2		ng/L		86	67 - 137
Perfluorodecanesulfonic acid	24.7	21.0		ng/L		85	61 - 134
Perfluorooctanesulfonamide	25.6	21.3		ng/L		83	55 - 130
Perfluorobutanoic acid	25.6	21.5		ng/L		84	62 - 156
Perfluoropentanoic acid	25.6	24.2		ng/L		95	72 - 139
HFPODA	25.6	27.5		ng/L		108	37 - 147
DONA	24.2	23.3		ng/L		96	49 - 158
9Cl-PF3ONS	23.8	21.5		ng/L		90	52 - 135
11Cl-PF3OUdS	23.8	21.4		ng/L		90	45 - 134
Perfluoroundecanoic acid	25.6	25.2		ng/L		98	62 - 138
Perfluorododecanoic acid	25.6	24.3		ng/L		95	63 - 140
8:2 Fluorotelomer sulfonic acid	24.5	20.9		ng/L		85	56 - 140
4:2 Fluorotelomer sulfonic acid	23.9	20.6		ng/L		86	59 - 130
6:2 Fluorotelomer sulfonic acid	24.3	20.8		ng/L		86	57 - 137

Isotope Dilution	LCS LCS %Recovery	Qualifier	Limits
M2-4:2 FTS	100		20 - 187
M2-8:2 FTS	99		34 - 182
M2-6:2 FTS	102		29 - 189
13C5 PFHxA	118		31 - 142
13C4 PFHpA	112		30 - 144
13C8 PFOA	108		49 - 127
13C9 PFNA	92		47 - 136
13C6 PFDA	111		47 - 128
13C7 PFUnA	101		40 - 135
13C2-PFDoDA	106		28 - 136
13C2 PFTeDA	111		10 - 144

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: LCS 410-181432/2-A

Matrix: Water

Analysis Batch: 181614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181432

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C3 PFBS	109		19 - 178
13C3 PFHxS	117		32 - 145
13C8 PFOS	109		49 - 126
d3-NMeFOSAA	94		32 - 151
d5-NEtFOSAA	96		37 - 164
13C8 FOSA	69		10 - 143
13C4 PFBA	105		41 - 132
13C5 PFPeA	100		33 - 155
13C3 HFPO-DA	114		20 - 153

Lab Sample ID: LCSD 410-181432/3-A

Matrix: Water

Analysis Batch: 181614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 181432

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit
Perfluorohexanoic acid	25.6	24.4		ng/L		95	66 - 137	3	30	
Perfluoroheptanoic acid	25.6	26.7		ng/L		104	66 - 141	8	30	
Perfluorooctanoic acid	25.6	24.3		ng/L		95	65 - 136	3	30	
Perfluorononanoic acid	25.6	25.7		ng/L		100	65 - 140	13	30	
Perfluorodecanoic acid	25.6	23.8		ng/L		93	63 - 137	13	30	
Perfluorotridecanoic acid	25.6	23.7		ng/L		93	58 - 146	3	30	
Perfluorotetradecanoic acid	25.6	24.3		ng/L		95	64 - 141	3	30	
Perfluorobutanesulfonic acid	22.7	22.4		ng/L		99	65 - 132	4	30	
Perfluorohexanesulfonic acid	23.3	23.5		ng/L		101	60 - 128	3	30	
Perfluorooctanesulfonic acid	23.7	20.8		ng/L		88	51 - 126	1	30	
NEtFOSAA	25.6	21.6		ng/L		85	54 - 134	4	30	
NMeFOSAA	25.6	22.1		ng/L		86	58 - 143	2	30	
Perfluoropentanesulfonic acid	24.0	23.1		ng/L		96	71 - 136	3	30	
Perfluoroheptanesulfonic acid	24.4	25.1		ng/L		103	67 - 135	0	30	
Perfluorononanesulfonic acid	24.6	22.2		ng/L		90	67 - 137	4	30	
Perfluorodecanesulfonic acid	24.7	20.7		ng/L		84	61 - 134	2	30	
Perfluorooctanesulfonamide	25.6	22.2		ng/L		87	55 - 130	4	30	
Perfluorobutanoic acid	25.6	22.3		ng/L		87	62 - 156	4	30	
Perfluoropentanoic acid	25.6	24.0		ng/L		94	72 - 139	1	30	
HFPODA	25.6	31.7		ng/L		124	37 - 147	14	30	
DONA	24.2	24.1		ng/L		100	49 - 158	3	30	
9Cl-PF3ONS	23.8	22.6		ng/L		95	52 - 135	5	30	
11Cl-PF3OUdS	23.8	21.6		ng/L		91	45 - 134	1	30	
Perfluoroundecanoic acid	25.6	24.8		ng/L		97	62 - 138	2	30	
Perfluorododecanoic acid	25.6	24.4		ng/L		95	63 - 140	0	30	
8:2 Fluorotelomer sulfonic acid	24.5	23.5		ng/L		96	56 - 140	12	30	
4:2 Fluorotelomer sulfonic acid	23.9	20.7		ng/L		87	59 - 130	1	30	
6:2 Fluorotelomer sulfonic acid	24.3	20.4		ng/L		84	57 - 137	2	30	

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	88		20 - 187
M2-8:2 FTS	79		34 - 182
M2-6:2 FTS	88		29 - 189
13C5 PFHxA	103		31 - 142

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: LCSD 410-181432/3-A

Matrix: Water

Analysis Batch: 181614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 181432

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFHpA	99		30 - 144
13C8 PFOA	94		49 - 127
13C9 PFNA	75		47 - 136
13C6 PFDA	90		47 - 128
13C7 PFUnA	87		40 - 135
13C2-PFDoDA	90		28 - 136
13C2 PFTeDA	94		10 - 144
13C3 PFBS	92		19 - 178
13C3 PFHxS	102		32 - 145
13C8 PFOS	94		49 - 126
d3-NMeFOSAA	82		32 - 151
d5-NEtFOSAA	82		37 - 164
13C8 FOSA	56		10 - 143
13C4 PFBA	88		41 - 132
13C5 PFPeA	84		33 - 155
13C3 HFPO-DA	87		20 - 153

Lab Sample ID: MB 410-181984/1-B

Matrix: Solid

Analysis Batch: 182429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 181984

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluoroheptanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorooctanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorononanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorodecanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorotridecanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorotetradecanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorobutanesulfonic acid	ND		0.0020	0.00040	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorohexanesulfonic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorooctanesulfonic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
NEtFOSAA	ND		0.0020	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
NMeFOSAA	ND		0.0020	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluoropentanesulfonic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluoroheptanesulfonic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorononanesulfonic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorodecanesulfonic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorooctanesulfonamide	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorobutanoic acid	ND		0.0020	0.00080	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluoropentanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
HFPODA	ND		0.0020	0.00040	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
DONA	ND		0.0030	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
9Cl-PF3ONS	ND		0.0020	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
11Cl-PF3OUdS	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluoroundecanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Perfluorododecanoic acid	ND		0.00060	0.00020	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
8:2 Fluorotelomer sulfonic acid	ND		0.0030	0.00060	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
4:2 Fluorotelomer sulfonic acid	ND		0.0020	0.00060	mg/Kg		10/12/21 21:42	10/14/21 04:41	1

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: MB 410-181984/1-B

Matrix: Solid

Analysis Batch: 182429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 181984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		0.0020	0.00060	mg/Kg		10/12/21 21:42	10/14/21 04:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	91		10 - 169				10/12/21 21:42	10/14/21 04:41	1
M2-8:2 FTS	96		10 - 178				10/12/21 21:42	10/14/21 04:41	1
M2-6:2 FTS	99		10 - 182				10/12/21 21:42	10/14/21 04:41	1
13C5 PFHxA	81		11 - 138				10/12/21 21:42	10/14/21 04:41	1
13C4 PFHpA	79		15 - 139				10/12/21 21:42	10/14/21 04:41	1
13C8 PFOA	86		21 - 133				10/12/21 21:42	10/14/21 04:41	1
13C9 PFNA	80		15 - 145				10/12/21 21:42	10/14/21 04:41	1
13C6 PFDA	86		21 - 134				10/12/21 21:42	10/14/21 04:41	1
13C7 PFUnA	96		15 - 138				10/12/21 21:42	10/14/21 04:41	1
13C2-PFDoDA	92		28 - 126				10/12/21 21:42	10/14/21 04:41	1
13C2 PFTeDA	88		10 - 138				10/12/21 21:42	10/14/21 04:41	1
13C3 PFBS	82		23 - 130				10/12/21 21:42	10/14/21 04:41	1
13C3 PFHxS	79		24 - 136				10/12/21 21:42	10/14/21 04:41	1
13C8 PFOS	83		31 - 130				10/12/21 21:42	10/14/21 04:41	1
d3-NMeFOSAA	87		10 - 172				10/12/21 21:42	10/14/21 04:41	1
d5-NEtFOSAA	93		10 - 176				10/12/21 21:42	10/14/21 04:41	1
13C8 FOSA	103		25 - 135				10/12/21 21:42	10/14/21 04:41	1
13C4 PFBA	77		12 - 137				10/12/21 21:42	10/14/21 04:41	1
13C5 PFPeA	78		12 - 135				10/12/21 21:42	10/14/21 04:41	1
13C3 HFPO-DA	89		10 - 152				10/12/21 21:42	10/14/21 04:41	1

Lab Sample ID: LCS 410-181984/2-B

Matrix: Solid

Analysis Batch: 182429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	0.0250	0.0290		mg/Kg		116	61 - 147
Perfluoroheptanoic acid	0.0250	0.0304		mg/Kg		122	61 - 151
Perfluorooctanoic acid	0.0250	0.0289		mg/Kg		115	62 - 144
Perfluorononanoic acid	0.0250	0.0324		mg/Kg		130	62 - 148
Perfluorodecanoic acid	0.0250	0.0277		mg/Kg		111	62 - 142
Perfluorotridecanoic acid	0.0250	0.0305		mg/Kg		122	57 - 152
Perfluorotetradecanoic acid	0.0250	0.0279		mg/Kg		112	60 - 147
Perfluorobutanesulfonic acid	0.0221	0.0258		mg/Kg		116	62 - 137
Perfluorohexanesulfonic acid	0.0228	0.0279		mg/Kg		122	57 - 135
Perfluorooctanesulfonic acid	0.0231	0.0248		mg/Kg		107	48 - 134
NEtFOSAA	0.0250	0.0281		mg/Kg		112	50 - 140
NMeFOSAA	0.0250	0.0287		mg/Kg		115	53 - 149
Perfluoropentanesulfonic acid	0.0235	0.0271		mg/Kg		115	65 - 145
Perfluoroheptanesulfonic acid	0.0238	0.0283		mg/Kg		119	67 - 138
Perfluorononanesulfonic acid	0.0240	0.0265		mg/Kg		110	63 - 143
Perfluorodecanesulfonic acid	0.0241	0.0262		mg/Kg		109	60 - 142
Perfluorooctanesulfonamide	0.0250	0.0256		mg/Kg		102	52 - 132
Perfluorobutanoic acid	0.0250	0.0262		mg/Kg		105	50 - 185
Perfluoropentanoic acid	0.0250	0.0276		mg/Kg		110	69 - 144
HFPODA	0.0250	0.0283		mg/Kg		113	29 - 162

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: LCS 410-181984/2-B

Matrix: Solid

Analysis Batch: 182429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DONA	0.0236	0.0285		mg/Kg		120	48 - 155
9CI-PF3ONS	0.0233	0.0275		mg/Kg		118	48 - 146
11CI-PF3OUdS	0.0233	0.0283		mg/Kg		122	45 - 145
Perfluoroundecanoic acid	0.0250	0.0282		mg/Kg		113	62 - 144
Perfluorododecanoic acid	0.0250	0.0306		mg/Kg		123	60 - 147
8:2 Fluorotelomer sulfonic acid	0.0240	0.0230		mg/Kg		96	50 - 147
4:2 Fluorotelomer sulfonic acid	0.0234	0.0246		mg/Kg		105	55 - 132
6:2 Fluorotelomer sulfonic acid	0.0237	0.0241		mg/Kg		102	53 - 137

LCS LCS		Limits	
Isotope Dilution	%Recovery		
M2-4:2 FTS	87	10 - 169	
M2-8:2 FTS	92	10 - 178	
M2-6:2 FTS	89	10 - 182	
13C5 PFHxA	83	11 - 138	
13C4 PFHpA	79	15 - 139	
13C8 PFOA	81	21 - 133	
13C9 PFNA	80	15 - 145	
13C6 PFDA	86	21 - 134	
13C7 PFUnA	97	15 - 138	
13C2-PFDoDA	89	28 - 126	
13C2 PFTeDA	89	10 - 138	
13C3 PFBS	86	23 - 130	
13C3 PFHxS	80	24 - 136	
13C8 PFOS	86	31 - 130	
d3-NMeFOSAA	85	10 - 172	
d5-NEtFOSAA	85	10 - 176	
13C8 FOSA	97	25 - 135	
13C4 PFBA	82	12 - 137	
13C5 PFPeA	84	12 - 135	
13C3 HFPO-DA	86	10 - 152	

Lab Sample ID: LCSD 410-181984/3-B

Matrix: Solid

Analysis Batch: 182429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 181984

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Perfluorohexanoic acid	0.0250	0.0289		mg/Kg		115	61 - 147	1		30
Perfluoroheptanoic acid	0.0250	0.0297		mg/Kg		119	61 - 151	2		30
Perfluorooctanoic acid	0.0250	0.0273		mg/Kg		109	62 - 144	6		30
Perfluorononanoic acid	0.0250	0.0298		mg/Kg		119	62 - 148	8		30
Perfluorodecanoic acid	0.0250	0.0268		mg/Kg		107	62 - 142	3		30
Perfluorotridecanoic acid	0.0250	0.0283		mg/Kg		113	57 - 152	8		30
Perfluorotetradecanoic acid	0.0250	0.0254		mg/Kg		102	60 - 147	9		30
Perfluorobutanesulfonic acid	0.0221	0.0252		mg/Kg		114	62 - 137	2		30
Perfluorohexanesulfonic acid	0.0228	0.0257		mg/Kg		113	57 - 135	8		30
Perfluorooctanesulfonic acid	0.0231	0.0244		mg/Kg		106	48 - 134	2		30
NEtFOSAA	0.0250	0.0302		mg/Kg		121	50 - 140	7		30
NMeFOSAA	0.0250	0.0277		mg/Kg		111	53 - 149	4		30
Perfluoropentanesulfonic acid	0.0235	0.0256		mg/Kg		109	65 - 145	5		30

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: LCSD 410-181984/3-B

Matrix: Solid

Analysis Batch: 182429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 181984

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroheptanesulfonic acid	0.0238	0.0277		mg/Kg		116	67 - 138	2	30
Perfluorononanesulfonic acid	0.0240	0.0249		mg/Kg		104	63 - 143	6	30
Perfluorodecanesulfonic acid	0.0241	0.0255		mg/Kg		106	60 - 142	3	30
Perfluorooctanesulfonamide	0.0250	0.0243		mg/Kg		97	52 - 132	5	30
Perfluorobutanoic acid	0.0250	0.0256		mg/Kg		102	50 - 185	2	30
Perfluoropentanoic acid	0.0250	0.0283		mg/Kg		113	69 - 144	3	30
HFPODA	0.0250	0.0311		mg/Kg		124	29 - 162	10	30
DONA	0.0236	0.0279		mg/Kg		118	48 - 155	2	30
9CI-PF3ONS	0.0233	0.0253		mg/Kg		109	48 - 146	8	30
11CI-PF3OUdS	0.0233	0.0255		mg/Kg		110	45 - 145	10	30
Perfluoroundecanoic acid	0.0250	0.0304		mg/Kg		122	62 - 144	7	30
Perfluorododecanoic acid	0.0250	0.0278		mg/Kg		111	60 - 147	10	30
8:2 Fluorotelomer sulfonic acid	0.0240	0.0261		mg/Kg		109	50 - 147	13	30
4:2 Fluorotelomer sulfonic acid	0.0234	0.0235		mg/Kg		101	55 - 132	5	30
6:2 Fluorotelomer sulfonic acid	0.0237	0.0251		mg/Kg		106	53 - 137	4	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
M2-4:2 FTS	87		10 - 169
M2-8:2 FTS	85		10 - 178
M2-6:2 FTS	85		10 - 182
13C5 PFHxA	79		11 - 138
13C4 PFHpA	75		15 - 139
13C8 PFOA	80		21 - 133
13C9 PFNA	80		15 - 145
13C6 PFDA	84		21 - 134
13C7 PFUnA	88		15 - 138
13C2-PFDoDA	84		28 - 126
13C2 PFTeDA	87		10 - 138
13C3 PFBS	82		23 - 130
13C3 PFHxS	79		24 - 136
13C8 PFOS	87		31 - 130
d3-NMeFOSAA	81		10 - 172
d5-NEtFOSAA	78		10 - 176
13C8 FOSA	93		25 - 135
13C4 PFBA	79		12 - 137
13C5 PFPeA	78		12 - 135
13C3 HFPO-DA	72		10 - 152

Lab Sample ID: MB 410-182434/1-A

Matrix: Water

Analysis Batch: 182886

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluoroheptanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorooctanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: MB 410-182434/1-A

Matrix: Water

Analysis Batch: 182886

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorobutanesulfonic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorohexanesulfonic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
NEtFOSAA	ND		3.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
NMeFOSAA	ND		2.0	0.60	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluoroheptanesulfonic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorononanesulfonic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorobutanoic acid	ND		5.0	2.0	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluoropentanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
HFPODA	ND		3.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
DONA	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
9Cl-PF3ONS	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
11Cl-PF3OUdS	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	1.0	ng/L		10/13/21 17:37	10/14/21 19:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.50	ng/L		10/13/21 17:37	10/14/21 19:34	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.0	ng/L		10/13/21 17:37	10/14/21 19:34	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	144		20 - 187	10/13/21 17:37	10/14/21 19:34	1
M2-8:2 FTS	137		34 - 182	10/13/21 17:37	10/14/21 19:34	1
M2-6:2 FTS	137		29 - 189	10/13/21 17:37	10/14/21 19:34	1
13C5 PFHxA	124		31 - 142	10/13/21 17:37	10/14/21 19:34	1
13C4 PFHpA	122		30 - 144	10/13/21 17:37	10/14/21 19:34	1
13C8 PFOA	121		49 - 127	10/13/21 17:37	10/14/21 19:34	1
13C9 PFNA	121		47 - 136	10/13/21 17:37	10/14/21 19:34	1
13C6 PFDA	119		47 - 128	10/13/21 17:37	10/14/21 19:34	1
13C7 PFUnA	116		40 - 135	10/13/21 17:37	10/14/21 19:34	1
13C2-PFDoDA	116		28 - 136	10/13/21 17:37	10/14/21 19:34	1
13C2 PFTeDA	112		10 - 144	10/13/21 17:37	10/14/21 19:34	1
13C3 PFBS	112		19 - 178	10/13/21 17:37	10/14/21 19:34	1
13C3 PFHxS	118		32 - 145	10/13/21 17:37	10/14/21 19:34	1
13C8 PFOS	125		49 - 126	10/13/21 17:37	10/14/21 19:34	1
d3-NMeFOSAA	119		32 - 151	10/13/21 17:37	10/14/21 19:34	1
d5-NEtFOSAA	127		37 - 164	10/13/21 17:37	10/14/21 19:34	1
13C8 FOSA	110		10 - 143	10/13/21 17:37	10/14/21 19:34	1
13C4 PFBA	114		41 - 132	10/13/21 17:37	10/14/21 19:34	1
13C5 PFPeA	112		33 - 155	10/13/21 17:37	10/14/21 19:34	1
13C3 HFPO-DA	109		20 - 153	10/13/21 17:37	10/14/21 19:34	1

QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: LCS 410-182434/2-A

Matrix: Water

Analysis Batch: 182886

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	25.6	24.6		ng/L		96	66 - 137
Perfluoroheptanoic acid	25.6	25.6		ng/L		100	66 - 141
Perfluorooctanoic acid	25.6	25.1		ng/L		98	65 - 136
Perfluorononanoic acid	25.6	23.3		ng/L		91	65 - 140
Perfluorodecanoic acid	25.6	22.7		ng/L		89	63 - 137
Perfluorotridecanoic acid	25.6	23.9		ng/L		93	58 - 146
Perfluorotetradecanoic acid	25.6	24.3		ng/L		95	64 - 141
Perfluorobutanesulfonic acid	22.7	21.5		ng/L		95	65 - 132
Perfluorohexanesulfonic acid	23.3	22.8		ng/L		97	60 - 128
Perfluorooctanesulfonic acid	23.7	22.4		ng/L		95	51 - 126
NEtFOSAA	25.6	23.1		ng/L		90	54 - 134
NMeFOSAA	25.6	22.6		ng/L		88	58 - 143
Perfluoropentanesulfonic acid	24.0	23.1		ng/L		96	71 - 136
Perfluoroheptanesulfonic acid	24.4	25.1		ng/L		103	67 - 135
Perfluorononanesulfonic acid	24.6	22.3		ng/L		91	67 - 137
Perfluorodecanesulfonic acid	24.7	23.1		ng/L		94	61 - 134
Perfluorooctanesulfonamide	25.6	23.9		ng/L		94	55 - 130
Perfluorobutanoic acid	25.6	23.7		ng/L		93	62 - 156
Perfluoropentanoic acid	25.6	25.0		ng/L		98	72 - 139
HFPODA	25.6	20.5		ng/L		80	37 - 147
DONA	24.2	23.9		ng/L		99	49 - 158
9Cl-PF3ONS	23.8	22.3		ng/L		94	52 - 135
11Cl-PF3OUdS	23.8	22.0		ng/L		92	45 - 134
Perfluoroundecanoic acid	25.6	25.2		ng/L		98	62 - 138
Perfluorododecanoic acid	25.6	24.3		ng/L		95	63 - 140
8:2 Fluorotelomer sulfonic acid	24.5	21.0		ng/L		86	56 - 140
4:2 Fluorotelomer sulfonic acid	23.9	21.6		ng/L		91	59 - 130
6:2 Fluorotelomer sulfonic acid	24.3	22.9		ng/L		94	57 - 137

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	139		20 - 187
M2-8:2 FTS	143		34 - 182
M2-6:2 FTS	139		29 - 189
13C5 PFHxA	122		31 - 142
13C4 PFHpA	124		30 - 144
13C8 PFOA	124		49 - 127
13C9 PFNA	130		47 - 136
13C6 PFDA	129	*5+	47 - 128
13C7 PFUnA	123		40 - 135
13C2-PFDoDA	124		28 - 136
13C2 PFTeDA	120		10 - 144
13C3 PFBS	121		19 - 178
13C3 PFHxS	122		32 - 145
13C8 PFOS	127	*5+	49 - 126
d3-NMeFOSAA	129		32 - 151
d5-NEtFOSAA	135		37 - 164
13C8 FOSA	118		10 - 143
13C4 PFBA	119		41 - 132

QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: LCS 410-182434/2-A

Matrix: Water

Analysis Batch: 182886

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182434

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C5 PFPeA	119		33 - 155
13C3 HFPO-DA	124		20 - 153

Lab Sample ID: LCSD 410-182434/3-A

Matrix: Water

Analysis Batch: 182886

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits			
Perfluorohexanoic acid	25.6	24.4		ng/L		95	66 - 137		1	30
Perfluoroheptanoic acid	25.6	25.3		ng/L		99	66 - 141		1	30
Perfluorooctanoic acid	25.6	25.0		ng/L		98	65 - 136		0	30
Perfluorononanoic acid	25.6	24.3		ng/L		95	65 - 140		4	30
Perfluorodecanoic acid	25.6	23.1		ng/L		90	63 - 137		2	30
Perfluorotridecanoic acid	25.6	24.5		ng/L		96	58 - 146		3	30
Perfluorotetradecanoic acid	25.6	25.2		ng/L		99	64 - 141		4	30
Perfluorobutanesulfonic acid	22.7	21.5		ng/L		95	65 - 132		0	30
Perfluorohexanesulfonic acid	23.3	24.0		ng/L		103	60 - 128		6	30
Perfluorooctanesulfonic acid	23.7	22.2		ng/L		94	51 - 126		1	30
NEtFOSAA	25.6	21.8		ng/L		85	54 - 134		6	30
NMeFOSAA	25.6	21.5		ng/L		84	58 - 143		5	30
Perfluoropentanesulfonic acid	24.0	23.6		ng/L		98	71 - 136		2	30
Perfluoroheptanesulfonic acid	24.4	25.9		ng/L		106	67 - 135		3	30
Perfluorononanesulfonic acid	24.6	21.9		ng/L		89	67 - 137		2	30
Perfluorodecanesulfonic acid	24.7	21.9		ng/L		89	61 - 134		6	30
Perfluorooctanesulfonamide	25.6	24.0		ng/L		94	55 - 130		0	30
Perfluorobutanoic acid	25.6	23.4		ng/L		92	62 - 156		1	30
Perfluoropentanoic acid	25.6	25.1		ng/L		98	72 - 139		0	30
HFPODA	25.6	21.1		ng/L		82	37 - 147		3	30
DONA	24.2	24.1		ng/L		100	49 - 158		1	30
9Cl-PF3ONS	23.8	22.0		ng/L		92	52 - 135		1	30
11Cl-PF3OUdS	23.8	22.0		ng/L		93	45 - 134		0	30
Perfluoroundecanoic acid	25.6	24.5		ng/L		96	62 - 138		3	30
Perfluorododecanoic acid	25.6	25.1		ng/L		98	63 - 140		3	30
8:2 Fluorotelomer sulfonic acid	24.5	19.7		ng/L		80	56 - 140		6	30
4:2 Fluorotelomer sulfonic acid	23.9	22.2		ng/L		93	59 - 130		2	30
6:2 Fluorotelomer sulfonic acid	24.3	22.2		ng/L		91	57 - 137		3	30

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	119		20 - 187
M2-8:2 FTS	127		34 - 182
M2-6:2 FTS	119		29 - 189
13C5 PFHxA	103		31 - 142
13C4 PFHpA	107		30 - 144
13C8 PFOA	106		49 - 127
13C9 PFNA	108		47 - 136
13C6 PFDA	108		47 - 128
13C7 PFUnA	110		40 - 135
13C2-PFDoDA	104		28 - 136
13C2 PFTeDA	100		10 - 144

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Lab Sample ID: LCSD 410-182434/3-A

Matrix: Water

Analysis Batch: 182886

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182434

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C3 PFBS	104		19 - 178
13C3 PFHxS	101		32 - 145
13C8 PFOS	112		49 - 126
d3-NMeFOSAA	111		32 - 151
d5-NEtFOSAA	117		37 - 164
13C8 FOSA	101		10 - 143
13C4 PFBA	105		41 - 132
13C5 PFPeA	105		33 - 155
13C3 HFPO-DA	110		20 - 153

QC Association Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

LCMS

Prep Batch: 181432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-58318-1	Effluent	Total/NA	Water	EPA 537 (mod)	
410-58318-2	Influent	Total/NA	Water	EPA 537 (mod)	
410-58318-6	Service Center Lift Station	Total/NA	Water	EPA 537 (mod)	
410-58318-6 - DL	Service Center Lift Station	Total/NA	Water	EPA 537 (mod)	
410-58318-8	Trip Blank	Total/NA	Water	EPA 537 (mod)	
MB 410-181432/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-181432/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-181432/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 181614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-181432/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	181432
LCS 410-181432/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	181432
LCSD 410-181432/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	181432

Analysis Batch: 181909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-58318-1	Effluent	Total/NA	Water	EPA 537 (Mod)	181432
410-58318-2	Influent	Total/NA	Water	EPA 537 (Mod)	181432
410-58318-6	Service Center Lift Station	Total/NA	Water	EPA 537 (Mod)	181432
410-58318-6 - DL	Service Center Lift Station	Total/NA	Water	EPA 537 (Mod)	181432
410-58318-8	Trip Blank	Total/NA	Water	EPA 537 (Mod)	181432

Prep Batch: 181984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-58318-3	North Digester	Total/NA	Solid	537 (mod)	
410-58318-4	South Digester	Total/NA	Solid	537 (mod)	
410-58318-5	Biosolids West	Total/NA	Solid	537 (mod)	
MB 410-181984/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-181984/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-181984/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

Cleanup Batch: 182000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-58318-3	North Digester	Total/NA	Solid	Extract Aliquot	181984
410-58318-4	South Digester	Total/NA	Solid	Extract Aliquot	181984
410-58318-5	Biosolids West	Total/NA	Solid	Extract Aliquot	181984
MB 410-181984/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	181984
LCS 410-181984/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	181984
LCSD 410-181984/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	181984

Analysis Batch: 182429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-58318-3	North Digester	Total/NA	Solid	EPA 537 (Mod)	182000
410-58318-4	South Digester	Total/NA	Solid	EPA 537 (Mod)	182000
410-58318-5	Biosolids West	Total/NA	Solid	EPA 537 (Mod)	182000
MB 410-181984/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	182000
LCS 410-181984/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	182000
LCSD 410-181984/3-B	Lab Control Sample Dup	Total/NA	Solid	EPA 537 (Mod)	182000

QC Association Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

LCMS

Prep Batch: 182434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-58318-7	Field Blank	Total/NA	Water	EPA 537 (mod)	
410-58318-8 - RE	Trip Blank	Total/NA	Water	EPA 537 (mod)	
MB 410-182434/1-A	Method Blank	Total/NA	Water	EPA 537 (mod)	
LCS 410-182434/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (mod)	
LCSD 410-182434/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (mod)	

Analysis Batch: 182886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-58318-7	Field Blank	Total/NA	Water	EPA 537 (Mod)	182434
410-58318-8 - RE	Trip Blank	Total/NA	Water	EPA 537 (Mod)	182434
MB 410-182434/1-A	Method Blank	Total/NA	Water	EPA 537 (Mod)	182434
LCS 410-182434/2-A	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	182434
LCSD 410-182434/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	182434

General Chemistry

Analysis Batch: 180772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-58318-3	North Digester	Total/NA	Solid	Moisture	
410-58318-4	South Digester	Total/NA	Solid	Moisture	
410-58318-5	Biosolids West	Total/NA	Solid	Moisture	

Lab Chronicle

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Effluent

Lab Sample ID: 410-58318-1

Date Collected: 10/06/21 09:12

Matrix: Water

Date Received: 10/08/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			181432	10/11/21 15:57	QLP7	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	181909	10/12/21 19:35	PY4D	ELLE

Client Sample ID: Influent

Lab Sample ID: 410-58318-2

Date Collected: 10/06/21 09:20

Matrix: Water

Date Received: 10/08/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			181432	10/11/21 15:57	QLP7	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	181909	10/12/21 19:47	PY4D	ELLE

Client Sample ID: North Digester

Lab Sample ID: 410-58318-3

Date Collected: 10/06/21 10:00

Matrix: Solid

Date Received: 10/08/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	180772	10/08/21 17:36	OEL4	ELLE

Client Sample ID: North Digester

Lab Sample ID: 410-58318-3

Date Collected: 10/06/21 10:00

Matrix: Solid

Date Received: 10/08/21 11:00

Percent Solids: 0.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			181984	10/12/21 21:42	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			182000	10/12/21 23:00	K9VR	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	182429	10/14/21 05:13	QD9Y	ELLE

Client Sample ID: South Digester

Lab Sample ID: 410-58318-4

Date Collected: 10/06/21 10:10

Matrix: Solid

Date Received: 10/08/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	180772	10/08/21 17:36	OEL4	ELLE

Client Sample ID: South Digester

Lab Sample ID: 410-58318-4

Date Collected: 10/06/21 10:10

Matrix: Solid

Date Received: 10/08/21 11:00

Percent Solids: 1.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			181984	10/12/21 21:42	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			182000	10/12/21 23:00	K9VR	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	182429	10/14/21 05:23	QD9Y	ELLE

Lab Chronicle

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Client Sample ID: Biosolids West

Lab Sample ID: 410-58318-5

Date Collected: 10/06/21 10:15

Matrix: Solid

Date Received: 10/08/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	180772	10/08/21 17:36	OEL4	ELLE

Client Sample ID: Biosolids West

Lab Sample ID: 410-58318-5

Date Collected: 10/06/21 10:15

Matrix: Solid

Date Received: 10/08/21 11:00

Percent Solids: 2.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			181984	10/12/21 21:42	K9VR	ELLE
Total/NA	Cleanup	Extract Aliquot			182000	10/12/21 23:00	K9VR	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	182429	10/14/21 05:34	QD9Y	ELLE

Client Sample ID: Service Center Lift Station

Lab Sample ID: 410-58318-6

Date Collected: 10/06/21 11:00

Matrix: Water

Date Received: 10/08/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			181432	10/11/21 15:57	QLP7	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	181909	10/13/21 00:57	PY4D	ELLE
Total/NA	Prep	EPA 537 (mod)	DL		181432	10/11/21 15:57	QLP7	ELLE
Total/NA	Analysis	EPA 537 (Mod)	DL	10	181909	10/13/21 01:08	PY4D	ELLE

Client Sample ID: Field Blank

Lab Sample ID: 410-58318-7

Date Collected: 10/06/21 09:10

Matrix: Water

Date Received: 10/08/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			182434	10/13/21 17:37	K9VR	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	182886	10/14/21 20:07	PY4D	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-58318-8

Date Collected: 10/06/21 11:30

Matrix: Water

Date Received: 10/08/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (mod)			181432	10/11/21 15:57	QLP7	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	181909	10/12/21 20:20	PY4D	ELLE
Total/NA	Prep	EPA 537 (mod)	RE		182434	10/13/21 17:37	K9VR	ELLE
Total/NA	Analysis	EPA 537 (Mod)	RE	1	182886	10/14/21 20:18	PY4D	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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
Michigan	State	9930	01-31-22

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

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 (Mod)	537 (mod)	Solid	11CI-PF3OUdS
EPA 537 (Mod)	537 (mod)	Solid	4:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	6:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	8:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	9CI-PF3ONS
EPA 537 (Mod)	537 (mod)	Solid	DONA
EPA 537 (Mod)	537 (mod)	Solid	HFPODA
EPA 537 (Mod)	537 (mod)	Solid	NEtFOSAA
EPA 537 (Mod)	537 (mod)	Solid	NMeFOSAA
EPA 537 (Mod)	537 (mod)	Solid	Perfluorobutanesulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorobutanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorodecanesulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorodecanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorododecanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluoroheptanesulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluoroheptanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorohexanesulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorohexanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorononanesulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorononanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorooctanesulfonamide
EPA 537 (Mod)	537 (mod)	Solid	Perfluorooctanesulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorooctanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluoropentanesulfonic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluoropentanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorotetradecanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluorotridecanoic acid
EPA 537 (Mod)	537 (mod)	Solid	Perfluoroundecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	11CI-PF3OUdS
EPA 537 (Mod)	EPA 537 (mod)	Water	4:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	6:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	8:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	9CI-PF3ONS
EPA 537 (Mod)	EPA 537 (mod)	Water	DONA
EPA 537 (Mod)	EPA 537 (mod)	Water	HFPODA
EPA 537 (Mod)	EPA 537 (mod)	Water	NEtFOSAA
EPA 537 (Mod)	EPA 537 (mod)	Water	NMeFOSAA
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorobutanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorodecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorododecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroheptanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanesulfonic acid

Accreditation/Certification Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorohexanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorononanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonamide
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorooctanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanesulfonic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoropentanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotetradecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluorotridecanoic acid
EPA 537 (Mod)	EPA 537 (mod)	Water	Perfluoroundecanoic acid
Moisture		Solid	Percent Moisture

Method Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

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

Sample Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-58318-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-58318-1	Effluent	Water	10/06/21 09:12	10/08/21 11:00
410-58318-2	Influent	Water	10/06/21 09:20	10/08/21 11:00
410-58318-3	North Digester	Solid	10/06/21 10:00	10/08/21 11:00
410-58318-4	South Digester	Solid	10/06/21 10:10	10/08/21 11:00
410-58318-5	Biosolids West	Solid	10/06/21 10:15	10/08/21 11:00
410-58318-6	Service Center Lift Station	Water	10/06/21 11:00	10/08/21 11:00
410-58318-7	Field Blank	Water	10/06/21 09:10	10/08/21 11:00
410-58318-8	Trip Blank	Water	10/06/21 11:30	10/08/21 11:00

Eurofins Lancaster Laboratories Env, LLC

2425 New Holland Pike

Lancaster, PA 17601

Phone 717-656-2300 Fax 717-656-2681

Chain of Custody Record



Eurofins

Environmental Testing
America

Client Information		Sampler <i>Nicholas Numbanku</i>		Lab PM Zanar, Elizabeth M		410-58318 Chain of Custody		JC No 0-34448-3761.1																											
Client Contact Bette Premo		Phone <i>906-346-9403</i>		E-Mail Elizabeth.Zanar@eurofinset.com				Page Page 1 of 1																											
Company White Water Associates		PWSID		Analysis Requested																															
Address 429 River Lane PO BOX 27		Due Date Requested: <i>Please Rush ASAP</i>		<table border="1"> <tr><td colspan="2">Preservation Codes:</td></tr> <tr><td>A - HCL</td><td>M - Hexane</td></tr> <tr><td>B - NaOH</td><td>N - None</td></tr> <tr><td>C - Zn Acetate</td><td>O - AsNaO2</td></tr> <tr><td>D - Nitric Acid</td><td>P - Na2O4S</td></tr> <tr><td>E - NaHSO4</td><td>Q - Na2SO3</td></tr> <tr><td>F - MeOH</td><td>R - Na2S2O3</td></tr> <tr><td>G - Amchlor</td><td>S - H2SO4</td></tr> <tr><td>H - Ascorbic Acid</td><td>T - TSP Dodecahydrate</td></tr> <tr><td>I - Ice</td><td>U - Acetone</td></tr> <tr><td>J - DI Water</td><td>V - MCAA</td></tr> <tr><td>K - EDTA</td><td>W - pH 4-5</td></tr> <tr><td>L - EDA</td><td>Z - other (specify)</td></tr> </table>						Preservation Codes:		A - HCL	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsNaO2	D - Nitric Acid	P - Na2O4S	E - NaHSO4	Q - Na2SO3	F - MeOH	R - Na2S2O3	G - Amchlor	S - H2SO4	H - Ascorbic Acid	T - TSP Dodecahydrate	I - Ice	U - Acetone	J - DI Water	V - MCAA	K - EDTA	W - pH 4-5	L - EDA	Z - other (specify)
Preservation Codes:																																			
A - HCL	M - Hexane																																		
B - NaOH	N - None																																		
C - Zn Acetate	O - AsNaO2																																		
D - Nitric Acid	P - Na2O4S																																		
E - NaHSO4	Q - Na2SO3																																		
F - MeOH	R - Na2S2O3																																		
G - Amchlor	S - H2SO4																																		
H - Ascorbic Acid	T - TSP Dodecahydrate																																		
I - Ice	U - Acetone																																		
J - DI Water	V - MCAA																																		
K - EDTA	W - pH 4-5																																		
L - EDA	Z - other (specify)																																		
City Amasa		TAT Requested (days):																																	
State, Zip MI, 49903		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																	
Phone 906-822-7889(Tel) 906-822-7977(Fax)		PO #																																	
Email bette.premo@white-water-associates.com		Purchase Order not required																																	
Project Name KI Sawyer WWTP		WO #		<table border="1"> <tr><td colspan="2">Other:</td></tr> <tr><td colspan="2"></td></tr> </table>						Other:																									
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Site <i>KI Sawyer WWTP</i>		Project # 41002275																																	
SSOW#																																			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)		PFC_IDA - MI List 26 PFAS		Total Number of Containers	Special Instructions/Note:																								
Effluent		10/6/21	9:12 AM	G	Water	N	X																												
PFAS Batch QC Effluent		10/6/21	9:12 AM	G	Water	N	X																												
Influent		10/6/21	9:20 AM	G	Water	N	X																												
North Digester		10/6/21	10:00 AM	G	S Water	N	X																												
South Digester		10/6/21	10:10 AM	G	S	N	X																												
Biosolids West		10/6/21	10:15 AM	G	S	N	X																												
Service Center Lift Station		10/6/21	11:00 AM	G	Water	N	X																												
Field Blank		10/6/21	9:10 AM	G	Water	N	X																												
Trip Blank		10/6/21	11:30 AM	G	Water	N	X																												
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input 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)																													
Deliverable Requested: I, II, III, IV, Other (specify)						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																													
Empty Kit Relinquished by		Date		Time		Method of Shipment																													
Relinquished by <i>Kor & Mark</i>		Date/Time		Company		Received by		Date/Time		Company																									
Relinquished by <i>Shirley Akita</i>		Date/Time		Company		Received by		Date/Time		Company																									
Relinquished by		Date/Time		Company		Received by		Date/Time		Company																									
Custody Seals Intact		Custody Seal No.		Coolant Temperature(s) °C and Other Remarks: <i>1.7</i>																															
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																			

Login Sample Receipt Checklist

Client: White Water Associates

Job Number: 410-58318-1

Login Number: 58318

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Slagle, Vaiyanna

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, 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	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	