

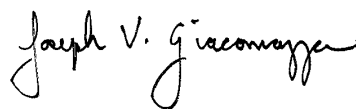
ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
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Tel: (716)691-2600

Laboratory Job ID: 480-164221-1
Client Project/Site: Camp Smith #360140

For:
New York State D.E.C.
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11th Floor
Albany, New York 12233-3256

Attn: Mr. Daniel Lanners



Authorized for release by:

1/10/2020 11:26:36 AM

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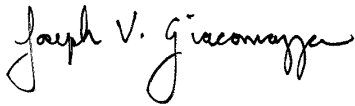
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Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Management Assistant II
1/10/2020 11:26:36 AM

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Case Narrative

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Job ID: 480-164221-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-164221-1

Comments

No additional comments.

Receipt

The samples were received on 12/14/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.7° C, 2.9° C, 3.2° C and 3.4° C.

GC/MS Semi VOA

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

LCMS

Method 537 (modified): The matrix spike duplicate (MSD) recoveries and precision for preparation batch 200-150841 and analytical batch 200-150985 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 537 (modified): The Ion Ratio associated with PFOS in sample AOI 3 GW 2 DER (480-164221-6) fails our in-house defined limits, however the result is being reported because the peaks observed for both mass transitions are within the expected retention time windows for the branched chain isomers in our calibration mix. Since many of these isomers are at very low levels in our mixed calibration source (many are less than 5% of the solution), it's difficult to project how the different isomer's responses differ at higher levels, so we don't feel comfortable rejecting the detect based solely upon the ratio failure

Method 537 (modified): 13C2 PFUnA, 13C2 PFDoA, d3-NMeFOSAA, d5-NEtFOSAA and 13C2 PFTeDA Isotope Dilution Analyte (IDA) recoveries associated with the following sample is below the method recommended limit: AOI 1 GW1 DER (480-164221-13). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). All detection limits are below the lower calibration.

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

Organic Prep

Method 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: AOI 3 GW 2 DER (480-164221-6). The reporting limits (RLs) have been adjusted proportionately.

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

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS RW 2 DER

Lab Sample ID: 480-164221-1

Date Collected: 12/12/19 12:34

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 01:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	25		15 - 110				12/16/19 15:35	12/18/19 01:16	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.3		1.7	0.87	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluoropentanoic acid (PFPeA)	6.2		1.7	0.55	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorohexanoic acid (PFHxA)	8.4		1.7	0.66	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluoroheptanoic acid (PFHpA)	2.6		1.7	0.79	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorooctanoic acid (PFOA)	5.2		1.7	0.70	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorononanoic acid (PFNA)	0.32 J		1.7	0.23	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.67	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.68	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.51	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.52	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.80	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorobutanesulfonic acid (PFBS)	3.1		1.7	0.43	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorohexanesulfonic acid (PFHxS)	22		1.7	0.69	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.82	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorooctanesulfonic acid (PFOS)	49		1.7	0.53	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.78	ng/L		12/18/19 10:57	12/24/19 14:53	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.7	8.7	ng/L		12/18/19 10:57	12/24/19 14:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		12/18/19 10:57	12/24/19 14:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		12/18/19 10:57	12/24/19 14:53	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.8	ng/L		12/18/19 10:57	12/24/19 14:53	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5	ng/L		12/18/19 10:57	12/24/19 14:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	102		50 - 150				12/18/19 10:57	12/24/19 14:53	1
13C4 PFHpA	99		50 - 150				12/18/19 10:57	12/24/19 14:53	1
13C4 PFOA	94		50 - 150				12/18/19 10:57	12/24/19 14:53	1
13C4 PFOS	89		50 - 150				12/18/19 10:57	12/24/19 14:53	1
13C5 PFNA	88		50 - 150				12/18/19 10:57	12/24/19 14:53	1
13C4 PFBA	85		25 - 150				12/18/19 10:57	12/24/19 14:53	1
13C2 PFHxA	99		50 - 150				12/18/19 10:57	12/24/19 14:53	1
13C2 PFDA	75		50 - 150				12/18/19 10:57	12/24/19 14:53	1
13C2 PFUnA	71		50 - 150				12/18/19 10:57	12/24/19 14:53	1
13C2 PFDoA	62		50 - 150				12/18/19 10:57	12/24/19 14:53	1
13C8 FOSA	74		25 - 150				12/18/19 10:57	12/24/19 14:53	1
13C5 PFPeA	105		25 - 150				12/18/19 10:57	12/24/19 14:53	1
13C2 PFTeDA	70		50 - 150				12/18/19 10:57	12/24/19 14:53	1
d3-NMeFOSAA	67		50 - 150				12/18/19 10:57	12/24/19 14:53	1
d5-NEtFOSAA	79		50 - 150				12/18/19 10:57	12/24/19 14:53	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS RW 2 DER

Lab Sample ID: 480-164221-1

Date Collected: 12/12/19 12:34

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	79		25 - 150	12/18/19 10:57	12/24/19 14:53	1
M2-8:2 FTS	80		25 - 150	12/18/19 10:57	12/24/19 14:53	1
13C3 PFBS	102		50 - 150	12/18/19 10:57	12/24/19 14:53	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: FIELD DUP 2

Lab Sample ID: 480-164221-2

Date Collected: 12/12/19 00:00

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 01:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	39		15 - 110				12/16/19 15:35	12/18/19 01:39	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.3		1.9	0.94	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluoropentanoic acid (PFPeA)	9.9		1.9	0.59	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorohexanoic acid (PFHxA)	12		1.9	0.72	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluoroheptanoic acid (PFHpA)	3.2		1.9	0.86	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorooctanoic acid (PFOA)	6.2		1.9	0.76	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorononanoic acid (PFNA)	0.26 J		1.9	0.25	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.73	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.73	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.56	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.57	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.87	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorobutanesulfonic acid (PFBS)	3.5		1.9	0.46	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorohexanesulfonic acid (PFHxS)	26		1.9	0.75	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.89	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorooctanesulfonic acid (PFOS)	43		1.9	0.57	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.85	ng/L		12/18/19 10:57	12/24/19 15:01	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.4	9.4	ng/L		12/18/19 10:57	12/24/19 15:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19	1.6	ng/L		12/18/19 10:57	12/24/19 15:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19	1.4	ng/L		12/18/19 10:57	12/24/19 15:01	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		19	5.2	ng/L		12/18/19 10:57	12/24/19 15:01	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	2.7	ng/L		12/18/19 10:57	12/24/19 15:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	110		50 - 150				12/18/19 10:57	12/24/19 15:01	1
13C4 PFHpA	108		50 - 150				12/18/19 10:57	12/24/19 15:01	1
13C4 PFOA	103		50 - 150				12/18/19 10:57	12/24/19 15:01	1
13C4 PFOS	108		50 - 150				12/18/19 10:57	12/24/19 15:01	1
13C5 PFNA	99		50 - 150				12/18/19 10:57	12/24/19 15:01	1
13C4 PFBA	92		25 - 150				12/18/19 10:57	12/24/19 15:01	1
13C2 PFHxA	99		50 - 150				12/18/19 10:57	12/24/19 15:01	1
13C2 PFDA	91		50 - 150				12/18/19 10:57	12/24/19 15:01	1
13C2 PFUnA	88		50 - 150				12/18/19 10:57	12/24/19 15:01	1
13C2 PFDoA	74		50 - 150				12/18/19 10:57	12/24/19 15:01	1
13C8 FOSA	86		25 - 150				12/18/19 10:57	12/24/19 15:01	1
13C5 PFPeA	104		25 - 150				12/18/19 10:57	12/24/19 15:01	1
13C2 PFTeDA	81		50 - 150				12/18/19 10:57	12/24/19 15:01	1
d3-NMeFOSAA	82		50 - 150				12/18/19 10:57	12/24/19 15:01	1
d5-NEtFOSAA	85		50 - 150				12/18/19 10:57	12/24/19 15:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: FIELD DUP 2

Lab Sample ID: 480-164221-2

Date Collected: 12/12/19 00:00

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	78		25 - 150	12/18/19 10:57	12/24/19 15:01	1
M2-8:2 FTS	103		25 - 150	12/18/19 10:57	12/24/19 15:01	1
13C3 PFBS	103		50 - 150	12/18/19 10:57	12/24/19 15:01	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS RW 1 DER

Lab Sample ID: 480-164221-3

Date Collected: 12/12/19 12:10

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/17/19 22:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110				12/16/19 15:35	12/17/19 22:29	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.4		1.9	0.97	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluoropentanoic acid (PFPeA)	10		1.9	0.61	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorohexanoic acid (PFHxA)	12		1.9	0.74	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluoroheptanoic acid (PFHpA)	3.5		1.9	0.88	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorooctanoic acid (PFOA)	5.9		1.9	0.78	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorononanoic acid (PFNA)	0.31 J		1.9	0.26	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.75	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.76	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorododecanoic acid (PFDoA)	ND F2		1.9	0.57	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.58	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.89	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorobutanesulfonic acid (PFBS)	3.5		1.9	0.47	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorohexanesulfonic acid (PFHxS)	25		1.9	0.77	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.92	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorooctanesulfonic acid (PFOS)	45		1.9	0.59	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.87	ng/L		12/18/19 10:57	12/24/19 15:09	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.7	9.7	ng/L		12/18/19 10:57	12/24/19 15:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19	1.6	ng/L		12/18/19 10:57	12/24/19 15:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19	1.5	ng/L		12/18/19 10:57	12/24/19 15:09	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		19	5.3	ng/L		12/18/19 10:57	12/24/19 15:09	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	2.8	ng/L		12/18/19 10:57	12/24/19 15:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	108		50 - 150				12/18/19 10:57	12/24/19 15:09	1
13C4 PFHpA	110		50 - 150				12/18/19 10:57	12/24/19 15:09	1
13C4 PFOA	107		50 - 150				12/18/19 10:57	12/24/19 15:09	1
13C4 PFOS	106		50 - 150				12/18/19 10:57	12/24/19 15:09	1
13C5 PFNA	98		50 - 150				12/18/19 10:57	12/24/19 15:09	1
13C4 PFBA	90		25 - 150				12/18/19 10:57	12/24/19 15:09	1
13C2 PFHxA	101		50 - 150				12/18/19 10:57	12/24/19 15:09	1
13C2 PFDA	92		50 - 150				12/18/19 10:57	12/24/19 15:09	1
13C2 PFUnA	93		50 - 150				12/18/19 10:57	12/24/19 15:09	1
13C2 PFDoA	78		50 - 150				12/18/19 10:57	12/24/19 15:09	1
13C8 FOSA	85		25 - 150				12/18/19 10:57	12/24/19 15:09	1
13C5 PFPeA	106		25 - 150				12/18/19 10:57	12/24/19 15:09	1
13C2 PFTeDA	88		50 - 150				12/18/19 10:57	12/24/19 15:09	1
d3-NMeFOSAA	86		50 - 150				12/18/19 10:57	12/24/19 15:09	1
d5-NEtFOSAA	84		50 - 150				12/18/19 10:57	12/24/19 15:09	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS RW 1 DER

Lab Sample ID: 480-164221-3

Date Collected: 12/12/19 12:10

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	80		25 - 150	12/18/19 10:57	12/24/19 15:09	1
M2-8:2 FTS	98		25 - 150	12/18/19 10:57	12/24/19 15:09	1
13C3 PFBS	108		50 - 150	12/18/19 10:57	12/24/19 15:09	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 04 DER

Lab Sample ID: 480-164221-4

Date Collected: 12/12/19 11:31

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 00:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				12/16/19 15:35	12/18/19 00:53	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7	0.86	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluoropentanoic acid (PFPeA)	0.64	J	1.7	0.54	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.78	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorooctanoic acid (PFOA)	1.7		1.7	0.70	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorononanoic acid (PFNA)	0.35	J	1.7	0.23	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.66	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.67	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.51	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.52	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorobutanesulfonic acid (PFBS)	0.57	J	1.7	0.42	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorohexanesulfonic acid (PFHxS)	0.82	J	1.7	0.69	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.82	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorooctanesulfonic acid (PFOS)	1.1	J	1.7	0.52	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77	ng/L		12/18/19 10:57	12/24/19 15:34	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.6	8.6	ng/L		12/18/19 10:57	12/24/19 15:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		12/18/19 10:57	12/24/19 15:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		12/18/19 10:57	12/24/19 15:34	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.7	ng/L		12/18/19 10:57	12/24/19 15:34	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5	ng/L		12/18/19 10:57	12/24/19 15:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	102		50 - 150				12/18/19 10:57	12/24/19 15:34	1
13C4 PFHpA	105		50 - 150				12/18/19 10:57	12/24/19 15:34	1
13C4 PFOA	100		50 - 150				12/18/19 10:57	12/24/19 15:34	1
13C4 PFOS	95		50 - 150				12/18/19 10:57	12/24/19 15:34	1
13C5 PFNA	100		50 - 150				12/18/19 10:57	12/24/19 15:34	1
13C4 PFBA	82		25 - 150				12/18/19 10:57	12/24/19 15:34	1
13C2 PFHxA	99		50 - 150				12/18/19 10:57	12/24/19 15:34	1
13C2 PFDA	94		50 - 150				12/18/19 10:57	12/24/19 15:34	1
13C2 PFUnA	89		50 - 150				12/18/19 10:57	12/24/19 15:34	1
13C2 PFDoA	84		50 - 150				12/18/19 10:57	12/24/19 15:34	1
13C8 FOSA	83		25 - 150				12/18/19 10:57	12/24/19 15:34	1
13C5 PFPeA	104		25 - 150				12/18/19 10:57	12/24/19 15:34	1
13C2 PFTeDA	79		50 - 150				12/18/19 10:57	12/24/19 15:34	1
d3-NMeFOSAA	84		50 - 150				12/18/19 10:57	12/24/19 15:34	1
d5-NEtFOSAA	89		50 - 150				12/18/19 10:57	12/24/19 15:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 04 DER

Lab Sample ID: 480-164221-4

Date Collected: 12/12/19 11:31

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	77		25 - 150	12/18/19 10:57	12/24/19 15:34	1
M2-8:2 FTS	95		25 - 150	12/18/19 10:57	12/24/19 15:34	1
13C3 PFBS	99		50 - 150	12/18/19 10:57	12/24/19 15:34	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: FIELD DUP

Lab Sample ID: 480-164221-5

Date Collected: 12/12/19 00:00

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 02:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110				12/16/19 15:35	12/18/19 02:03	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.0	J	1.6	0.82	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.52	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.63	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.75	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorooctanoic acid (PFOA)	1.7		1.6	0.67	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorononanoic acid (PFNA)	0.31	J	1.6	0.22	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.63	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.64	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.49	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.49	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.76	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorobutanesulfonic acid (PFBS)	0.50	J	1.6	0.40	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.66	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.78	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.50	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.74	ng/L		12/18/19 10:57	12/24/19 15:59	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.2	8.2	ng/L		12/18/19 10:57	12/24/19 15:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		12/18/19 10:57	12/24/19 15:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		16	1.2	ng/L		12/18/19 10:57	12/24/19 15:59	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		16	4.5	ng/L		12/18/19 10:57	12/24/19 15:59	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		16	2.4	ng/L		12/18/19 10:57	12/24/19 15:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	105		50 - 150				12/18/19 10:57	12/24/19 15:59	1
13C4 PFHpA	102		50 - 150				12/18/19 10:57	12/24/19 15:59	1
13C4 PFOA	94		50 - 150				12/18/19 10:57	12/24/19 15:59	1
13C4 PFOS	95		50 - 150				12/18/19 10:57	12/24/19 15:59	1
13C5 PFNA	88		50 - 150				12/18/19 10:57	12/24/19 15:59	1
13C4 PFBA	80		25 - 150				12/18/19 10:57	12/24/19 15:59	1
13C2 PFHxA	95		50 - 150				12/18/19 10:57	12/24/19 15:59	1
13C2 PFDA	90		50 - 150				12/18/19 10:57	12/24/19 15:59	1
13C2 PFUnA	88		50 - 150				12/18/19 10:57	12/24/19 15:59	1
13C2 PFDoA	75		50 - 150				12/18/19 10:57	12/24/19 15:59	1
13C8 FOSA	81		25 - 150				12/18/19 10:57	12/24/19 15:59	1
13C5 PFPeA	93		25 - 150				12/18/19 10:57	12/24/19 15:59	1
13C2 PFTeDA	71		50 - 150				12/18/19 10:57	12/24/19 15:59	1
d3-NMeFOSAA	79		50 - 150				12/18/19 10:57	12/24/19 15:59	1
d5-NEtFOSAA	78		50 - 150				12/18/19 10:57	12/24/19 15:59	1
M2-6:2 FTS	82		25 - 150				12/18/19 10:57	12/24/19 15:59	1
M2-8:2 FTS	93		25 - 150				12/18/19 10:57	12/24/19 15:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: FIELD DUP

Lab Sample ID: 480-164221-5

Date Collected: 12/12/19 00:00

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	96		50 - 150	12/18/19 10:57	12/24/19 15:59	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 3 GW 2 DER

Lab Sample ID: 480-164221-6

Date Collected: 12/10/19 13:40

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.67	0.33	ug/L		12/16/19 15:35	12/18/19 02:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110				12/16/19 15:35	12/18/19 02:26	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.0		1.9	0.95	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluoropentanoic acid (PFPeA)	4.7		1.9	0.60	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorohexanoic acid (PFHxA)	4.0		1.9	0.72	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluoroheptanoic acid (PFHpA)	2.4		1.9	0.87	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorooctanoic acid (PFOA)	12		1.9	0.77	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorononanoic acid (PFNA)	0.69 J		1.9	0.26	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.73	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.74	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.56	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.57	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.88	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorobutanesulfonic acid (PFBS)	1.7 J		1.9	0.47	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorohexanesulfonic acid (PFHxS)	0.90 J		1.9	0.76	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.90	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorooctanesulfonic acid (PFOS)	4.5 I		1.9	0.58	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.86	ng/L		12/18/19 10:57	12/24/19 16:07	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.5	9.5	ng/L		12/18/19 10:57	12/24/19 16:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19	1.6	ng/L		12/18/19 10:57	12/24/19 16:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19	1.4	ng/L		12/18/19 10:57	12/24/19 16:07	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		19	5.2	ng/L		12/18/19 10:57	12/24/19 16:07	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	2.8	ng/L		12/18/19 10:57	12/24/19 16:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	105		50 - 150				12/18/19 10:57	12/24/19 16:07	1
13C4 PFHpA	99		50 - 150				12/18/19 10:57	12/24/19 16:07	1
13C4 PFOA	98		50 - 150				12/18/19 10:57	12/24/19 16:07	1
13C4 PFOS	97		50 - 150				12/18/19 10:57	12/24/19 16:07	1
13C5 PFNA	91		50 - 150				12/18/19 10:57	12/24/19 16:07	1
13C4 PFBA	82		25 - 150				12/18/19 10:57	12/24/19 16:07	1
13C2 PFHxA	94		50 - 150				12/18/19 10:57	12/24/19 16:07	1
13C2 PFDA	89		50 - 150				12/18/19 10:57	12/24/19 16:07	1
13C2 PFUnA	91		50 - 150				12/18/19 10:57	12/24/19 16:07	1
13C2 PFDoA	78		50 - 150				12/18/19 10:57	12/24/19 16:07	1
13C8 FOSA	87		25 - 150				12/18/19 10:57	12/24/19 16:07	1
13C5 PFPeA	104		25 - 150				12/18/19 10:57	12/24/19 16:07	1
13C2 PFTeDA	73		50 - 150				12/18/19 10:57	12/24/19 16:07	1
d3-NMeFOSAA	73		50 - 150				12/18/19 10:57	12/24/19 16:07	1
d5-NEtFOSAA	74		50 - 150				12/18/19 10:57	12/24/19 16:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 3 GW 2 DER

Lab Sample ID: 480-164221-6

Date Collected: 12/10/19 13:40

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	76		25 - 150	12/18/19 10:57	12/24/19 16:07	1
M2-8:2 FTS	94		25 - 150	12/18/19 10:57	12/24/19 16:07	1
13C3 PFBS	102		50 - 150	12/18/19 10:57	12/24/19 16:07	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 1 GW 2 DER

Lab Sample ID: 480-164221-7

Date Collected: 12/11/19 12:25

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 02:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110				12/16/19 15:35	12/18/19 02:49	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.0		1.8	0.92	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluoropentanoic acid (PFPeA)	1.2 J		1.8	0.58	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorohexanoic acid (PFHxA)	1.1 J		1.8	0.70	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluoroheptanoic acid (PFHpA)	1.1 J		1.8	0.83	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorooctanoic acid (PFOA)	6.9		1.8	0.74	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorononanoic acid (PFNA)	1.6 J		1.8	0.25	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.71	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.71	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.54	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.55	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.84	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorobutanesulfonic acid (PFBS)	0.75 J		1.8	0.45	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.8	0.73	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.87	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorooctanesulfonic acid (PFOS)	4.4		1.8	0.56	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.82	ng/L		12/18/19 10:57	12/24/19 16:15	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.2	9.2	ng/L		12/18/19 10:57	12/24/19 16:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.6	ng/L		12/18/19 10:57	12/24/19 16:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.4	ng/L		12/18/19 10:57	12/24/19 16:15	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	5.0	ng/L		12/18/19 10:57	12/24/19 16:15	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.7	ng/L		12/18/19 10:57	12/24/19 16:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	103		50 - 150				12/18/19 10:57	12/24/19 16:15	1
13C4 PFHpA	102		50 - 150				12/18/19 10:57	12/24/19 16:15	1
13C4 PFOA	103		50 - 150				12/18/19 10:57	12/24/19 16:15	1
13C4 PFOS	96		50 - 150				12/18/19 10:57	12/24/19 16:15	1
13C5 PFNA	93		50 - 150				12/18/19 10:57	12/24/19 16:15	1
13C4 PFBA	87		25 - 150				12/18/19 10:57	12/24/19 16:15	1
13C2 PFHxA	95		50 - 150				12/18/19 10:57	12/24/19 16:15	1
13C2 PFDA	90		50 - 150				12/18/19 10:57	12/24/19 16:15	1
13C2 PFUnA	92		50 - 150				12/18/19 10:57	12/24/19 16:15	1
13C2 PFDoA	78		50 - 150				12/18/19 10:57	12/24/19 16:15	1
13C8 FOSA	74		25 - 150				12/18/19 10:57	12/24/19 16:15	1
13C5 PFPeA	109		25 - 150				12/18/19 10:57	12/24/19 16:15	1
13C2 PFTeDA	82		50 - 150				12/18/19 10:57	12/24/19 16:15	1
d3-NMeFOSAA	80		50 - 150				12/18/19 10:57	12/24/19 16:15	1
d5-NEtFOSAA	83		50 - 150				12/18/19 10:57	12/24/19 16:15	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 1 GW 2 DER

Lab Sample ID: 480-164221-7

Date Collected: 12/11/19 12:25

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	76		25 - 150	12/18/19 10:57	12/24/19 16:15	1
M2-8:2 FTS	93		25 - 150	12/18/19 10:57	12/24/19 16:15	1
13C3 PFBS	98		50 - 150	12/18/19 10:57	12/24/19 16:15	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 01 DER

Lab Sample ID: 480-164221-8

Date Collected: 12/12/19 09:00

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 03:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				12/16/19 15:35	12/18/19 03:12	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7	0.85	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.53	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.64	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.77	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorooctanoic acid (PFOA)	0.81	J	1.7	0.69	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.65	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.66	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.51	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.78	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.41	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.7	0.68	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.80	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorooctanesulfonic acid (PFOS)	1.5	J	1.7	0.52	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.76	ng/L		12/18/19 10:57	12/24/19 16:23	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.5	8.5	ng/L		12/18/19 10:57	12/24/19 16:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		12/18/19 10:57	12/24/19 16:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		12/18/19 10:57	12/24/19 16:23	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.7	ng/L		12/18/19 10:57	12/24/19 16:23	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5	ng/L		12/18/19 10:57	12/24/19 16:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	108		50 - 150				12/18/19 10:57	12/24/19 16:23	1
13C4 PFHpA	112		50 - 150				12/18/19 10:57	12/24/19 16:23	1
13C4 PFOA	103		50 - 150				12/18/19 10:57	12/24/19 16:23	1
13C4 PFOS	101		50 - 150				12/18/19 10:57	12/24/19 16:23	1
13C5 PFNA	103		50 - 150				12/18/19 10:57	12/24/19 16:23	1
13C4 PFBA	85		25 - 150				12/18/19 10:57	12/24/19 16:23	1
13C2 PFHxA	94		50 - 150				12/18/19 10:57	12/24/19 16:23	1
13C2 PFDA	95		50 - 150				12/18/19 10:57	12/24/19 16:23	1
13C2 PFUnA	100		50 - 150				12/18/19 10:57	12/24/19 16:23	1
13C2 PFDoA	90		50 - 150				12/18/19 10:57	12/24/19 16:23	1
13C8 FOSA	44		25 - 150				12/18/19 10:57	12/24/19 16:23	1
13C5 PFPeA	105		25 - 150				12/18/19 10:57	12/24/19 16:23	1
13C2 PFTeA	77		50 - 150				12/18/19 10:57	12/24/19 16:23	1
d3-NMeFOSAA	87		50 - 150				12/18/19 10:57	12/24/19 16:23	1
d5-NEtFOSAA	84		50 - 150				12/18/19 10:57	12/24/19 16:23	1
M2-6:2 FTS	78		25 - 150				12/18/19 10:57	12/24/19 16:23	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 01 DER

Lab Sample ID: 480-164221-8

Date Collected: 12/12/19 09:00

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-8:2 FTS	106		25 - 150	12/18/19 10:57	12/24/19 16:23	1
13C3 PFBS	102		50 - 150	12/18/19 10:57	12/24/19 16:23	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-164221-9

Date Collected: 12/11/19 12:35

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L	-	12/16/19 15:35	12/18/19 03:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				12/16/19 15:35	12/18/19 03:36	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 05 DER

Lab Sample ID: 480-164221-10

Date Collected: 12/11/19 15:25

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 03:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				12/16/19 15:35	12/18/19 03:59	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.4	J	1.7	0.86	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluoropentanoic acid (PFPeA)	0.79	J	1.7	0.54	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorohexanoic acid (PFHxA)	0.72	J	1.7	0.66	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.79	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorooctanoic acid (PFOA)	1.9		1.7	0.70	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorononanoic acid (PFNA)	0.55	J	1.7	0.23	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.67	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.67	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.51	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.52	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.80	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorobutanesulfonic acid (PFBS)	0.78	J	1.7	0.42	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.7	0.69	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.82	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorooctanesulfonic acid (PFOS)	1.6	J	1.7	0.53	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.78	ng/L		12/18/19 10:57	12/24/19 16:39	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.6	8.6	ng/L		12/18/19 10:57	12/24/19 16:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		12/18/19 10:57	12/24/19 16:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		12/18/19 10:57	12/24/19 16:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.8	ng/L		12/18/19 10:57	12/24/19 16:39	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5	ng/L		12/18/19 10:57	12/24/19 16:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	104		50 - 150				12/18/19 10:57	12/24/19 16:39	1
13C4 PFHpA	107		50 - 150				12/18/19 10:57	12/24/19 16:39	1
13C4 PFOA	101		50 - 150				12/18/19 10:57	12/24/19 16:39	1
13C4 PFOS	101		50 - 150				12/18/19 10:57	12/24/19 16:39	1
13C5 PFNA	95		50 - 150				12/18/19 10:57	12/24/19 16:39	1
13C4 PFBA	85		25 - 150				12/18/19 10:57	12/24/19 16:39	1
13C2 PFHxA	97		50 - 150				12/18/19 10:57	12/24/19 16:39	1
13C2 PFDA	96		50 - 150				12/18/19 10:57	12/24/19 16:39	1
13C2 PFUnA	92		50 - 150				12/18/19 10:57	12/24/19 16:39	1
13C2 PFDoA	78		50 - 150				12/18/19 10:57	12/24/19 16:39	1
13C8 FOSA	83		25 - 150				12/18/19 10:57	12/24/19 16:39	1
13C5 PFPeA	106		25 - 150				12/18/19 10:57	12/24/19 16:39	1
13C2 PFTeDA	79		50 - 150				12/18/19 10:57	12/24/19 16:39	1
d3-NMeFOSAA	82		50 - 150				12/18/19 10:57	12/24/19 16:39	1
d5-NEtFOSAA	87		50 - 150				12/18/19 10:57	12/24/19 16:39	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 05 DER

Lab Sample ID: 480-164221-10

Date Collected: 12/11/19 15:25

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	79		25 - 150	12/18/19 10:57	12/24/19 16:39	1
M2-8:2 FTS	105		25 - 150	12/18/19 10:57	12/24/19 16:39	1
13C3 PFBS	104		50 - 150	12/18/19 10:57	12/24/19 16:39	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 03 DER

Lab Sample ID: 480-164221-11

Date Collected: 12/12/19 10:35

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 04:22	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	37		15 - 110				12/16/19 15:35	12/18/19 04:22	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.94	J	1.8	0.89	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.56	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.68	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.81	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorooctanoic acid (PFOA)	0.92	J	1.8	0.72	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.69	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.70	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.53	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.54	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.82	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.44	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.71	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.85	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.80	ng/L		12/18/19 10:57	12/24/19 16:48	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.9	8.9	ng/L		12/18/19 10:57	12/24/19 16:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		12/18/19 10:57	12/24/19 16:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.3	ng/L		12/18/19 10:57	12/24/19 16:48	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	4.9	ng/L		12/18/19 10:57	12/24/19 16:48	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.6	ng/L		12/18/19 10:57	12/24/19 16:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	110		50 - 150				12/18/19 10:57	12/24/19 16:48	1
13C4 PFHpA	104		50 - 150				12/18/19 10:57	12/24/19 16:48	1
13C4 PFOA	102		50 - 150				12/18/19 10:57	12/24/19 16:48	1
13C4 PFOS	99		50 - 150				12/18/19 10:57	12/24/19 16:48	1
13C5 PFNA	94		50 - 150				12/18/19 10:57	12/24/19 16:48	1
13C4 PFBA	82		25 - 150				12/18/19 10:57	12/24/19 16:48	1
13C2 PFHxA	97		50 - 150				12/18/19 10:57	12/24/19 16:48	1
13C2 PFDA	96		50 - 150				12/18/19 10:57	12/24/19 16:48	1
13C2 PFUnA	99		50 - 150				12/18/19 10:57	12/24/19 16:48	1
13C2 PFDoA	81		50 - 150				12/18/19 10:57	12/24/19 16:48	1
13C8 FOSA	87		25 - 150				12/18/19 10:57	12/24/19 16:48	1
13C5 PFPeA	99		25 - 150				12/18/19 10:57	12/24/19 16:48	1
13C2 PFTeDA	79		50 - 150				12/18/19 10:57	12/24/19 16:48	1
d3-NMeFOSAA	72		50 - 150				12/18/19 10:57	12/24/19 16:48	1
d5-NEtFOSAA	94		50 - 150				12/18/19 10:57	12/24/19 16:48	1
M2-6:2 FTS	83		25 - 150				12/18/19 10:57	12/24/19 16:48	1
M2-8:2 FTS	94		25 - 150				12/18/19 10:57	12/24/19 16:48	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 03 DER

Lab Sample ID: 480-164221-11

Date Collected: 12/12/19 10:35

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFBS	97		50 - 150	12/18/19 10:57	12/24/19 16:48	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 02 DER

Lab Sample ID: 480-164221-12

Date Collected: 12/12/19 09:50

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 04:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110				12/16/19 15:35	12/18/19 04:45	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7	0.86	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.66	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.79	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorooctanoic acid (PFOA)	1.1	J	1.7	0.70	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.66	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.67	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.51	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.52	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.69	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.82	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.53	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.78	ng/L		12/18/19 10:57	12/24/19 16:56	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.6	8.6	ng/L		12/18/19 10:57	12/24/19 16:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		12/18/19 10:57	12/24/19 16:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		12/18/19 10:57	12/24/19 16:56	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.7	ng/L		12/18/19 10:57	12/24/19 16:56	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5	ng/L		12/18/19 10:57	12/24/19 16:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	106		50 - 150				12/18/19 10:57	12/24/19 16:56	1
13C4 PFHpA	108		50 - 150				12/18/19 10:57	12/24/19 16:56	1
13C4 PFOA	105		50 - 150				12/18/19 10:57	12/24/19 16:56	1
13C4 PFOS	103		50 - 150				12/18/19 10:57	12/24/19 16:56	1
13C5 PFNA	96		50 - 150				12/18/19 10:57	12/24/19 16:56	1
13C4 PFBA	86		25 - 150				12/18/19 10:57	12/24/19 16:56	1
13C2 PFHxA	101		50 - 150				12/18/19 10:57	12/24/19 16:56	1
13C2 PFDA	99		50 - 150				12/18/19 10:57	12/24/19 16:56	1
13C2 PFUnA	96		50 - 150				12/18/19 10:57	12/24/19 16:56	1
13C2 PFDoA	80		50 - 150				12/18/19 10:57	12/24/19 16:56	1
13C8 FOSA	86		25 - 150				12/18/19 10:57	12/24/19 16:56	1
13C5 PFPeA	104		25 - 150				12/18/19 10:57	12/24/19 16:56	1
13C2 PFTeDA	85		50 - 150				12/18/19 10:57	12/24/19 16:56	1
d3-NMeFOSAA	77		50 - 150				12/18/19 10:57	12/24/19 16:56	1
d5-NEtFOSAA	89		50 - 150				12/18/19 10:57	12/24/19 16:56	1
M2-6:2 FTS	81		25 - 150				12/18/19 10:57	12/24/19 16:56	1
M2-8:2 FTS	112		25 - 150				12/18/19 10:57	12/24/19 16:56	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 02 DER

Lab Sample ID: 480-164221-12

Date Collected: 12/12/19 09:50

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>¹³C3 PFBS</i>	<i>103</i>		<i>50 - 150</i>	<i>12/18/19 10:57</i>	<i>12/24/19 16:56</i>	<i>1</i>

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 1 GW1 DER

Lab Sample ID: 480-164221-13

Date Collected: 12/11/19 11:35

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.18	J	0.20	0.10	ug/L		12/16/19 15:35	12/18/19 05:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110				12/16/19 15:35	12/18/19 05:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		1.7	0.84	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluoropentanoic acid (PFPeA)	9.0		1.7	0.53	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorohexanoic acid (PFHxA)	12		1.7	0.64	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluoroheptanoic acid (PFHpA)	6.6		1.7	0.77	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorooctanoic acid (PFOA)	35		1.7	0.68	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorononanoic acid (PFNA)	9.1		1.7	0.23	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorodecanoic acid (PFDA)	2.3		1.7	0.65	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluoroundecanoic acid (PFUnA)	0.96	J	1.7	0.66	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorobutanesulfonic acid (PFBS)	3.7		1.7	0.41	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorohexanesulfonic acid (PFHxS)	17		1.7	0.67	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.80	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorooctanesulfonic acid (PFOS)	28		1.7	0.51	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.76	ng/L		12/18/19 10:57	12/24/19 17:04	1
Perfluorooctanesulfonamide (PFOSA)	ND		8.4	8.4	ng/L		12/18/19 10:57	12/24/19 17:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		12/18/19 10:57	12/24/19 17:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		12/18/19 10:57	12/24/19 17:04	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	4.6	ng/L		12/18/19 10:57	12/24/19 17:04	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.4	ng/L		12/18/19 10:57	12/24/19 17:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	88		50 - 150				12/18/19 10:57	12/24/19 17:04	1
13C4 PFHpA	90		50 - 150				12/18/19 10:57	12/24/19 17:04	1
13C4 PFOA	85		50 - 150				12/18/19 10:57	12/24/19 17:04	1
13C4 PFOS	57		50 - 150				12/18/19 10:57	12/24/19 17:04	1
13C5 PFNA	60		50 - 150				12/18/19 10:57	12/24/19 17:04	1
13C4 PFBA	72		25 - 150				12/18/19 10:57	12/24/19 17:04	1
13C2 PFHxA	88		50 - 150				12/18/19 10:57	12/24/19 17:04	1
13C2 PFDA	52		50 - 150				12/18/19 10:57	12/24/19 17:04	1
13C2 PFUnA	48	*	50 - 150				12/18/19 10:57	12/24/19 17:04	1
13C2 PFDoA	48	*	50 - 150				12/18/19 10:57	12/24/19 17:04	1
13C8 FOSA	47		25 - 150				12/18/19 10:57	12/24/19 17:04	1
13C5 PFPeA	85		25 - 150				12/18/19 10:57	12/24/19 17:04	1
13C2 PFTeDA	45	*	50 - 150				12/18/19 10:57	12/24/19 17:04	1
d3-NMeFOSAA	41	*	50 - 150				12/18/19 10:57	12/24/19 17:04	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 1 GW1 DER

Lab Sample ID: 480-164221-13

Date Collected: 12/11/19 11:35

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d5-NEtFOSAA	49	*	50 - 150	12/18/19 10:57	12/24/19 17:04	1
M2-6:2 FTS	65		25 - 150	12/18/19 10:57	12/24/19 17:04	1
M2-8:2 FTS	57		25 - 150	12/18/19 10:57	12/24/19 17:04	1
13C3 PFBS	85		50 - 150	12/18/19 10:57	12/24/19 17:04	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 3 GW1 DER

Lab Sample ID: 480-164221-14

Date Collected: 12/10/19 15:05

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 05:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				12/16/19 15:35	12/18/19 05:32	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	28		1.8	0.92	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluoropentanoic acid (PFPeA)	34		1.8	0.58	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorohexanoic acid (PFHxA)	34		1.8	0.70	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluoroheptanoic acid (PFHpA)	14		1.8	0.84	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorooctanoic acid (PFOA)	65		1.8	0.75	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorononanoic acid (PFNA)	7.2		1.8	0.25	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorodecanoic acid (PFDA)	1.1 J		1.8	0.71	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.72	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.54	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.55	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.85	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorobutanesulfonic acid (PFBS)	5.0		1.8	0.45	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorohexanesulfonic acid (PFHxS)	8.2		1.8	0.74	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.87	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorooctanesulfonic acid (PFOS)	17		1.8	0.56	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.83	ng/L		12/18/19 10:57	12/24/19 17:12	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.2	9.2	ng/L		12/18/19 10:57	12/24/19 17:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.6	ng/L		12/18/19 10:57	12/24/19 17:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18	1.4	ng/L		12/18/19 10:57	12/24/19 17:12	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		18	5.1	ng/L		12/18/19 10:57	12/24/19 17:12	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		18	2.7	ng/L		12/18/19 10:57	12/24/19 17:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	98		50 - 150				12/18/19 10:57	12/24/19 17:12	1
13C4 PFHpA	99		50 - 150				12/18/19 10:57	12/24/19 17:12	1
13C4 PFOA	96		50 - 150				12/18/19 10:57	12/24/19 17:12	1
13C4 PFOS	87		50 - 150				12/18/19 10:57	12/24/19 17:12	1
13C5 PFNA	92		50 - 150				12/18/19 10:57	12/24/19 17:12	1
13C4 PFBA	62		25 - 150				12/18/19 10:57	12/24/19 17:12	1
13C2 PFHxA	93		50 - 150				12/18/19 10:57	12/24/19 17:12	1
13C2 PFDA	82		50 - 150				12/18/19 10:57	12/24/19 17:12	1
13C2 PFUnA	84		50 - 150				12/18/19 10:57	12/24/19 17:12	1
13C2 PFDoA	72		50 - 150				12/18/19 10:57	12/24/19 17:12	1
13C8 FOSA	47		25 - 150				12/18/19 10:57	12/24/19 17:12	1
13C5 PFPeA	96		25 - 150				12/18/19 10:57	12/24/19 17:12	1
13C2 PFTeDA	65		50 - 150				12/18/19 10:57	12/24/19 17:12	1
d3-NMeFOSAA	67		50 - 150				12/18/19 10:57	12/24/19 17:12	1
d5-NEtFOSAA	75		50 - 150				12/18/19 10:57	12/24/19 17:12	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 3 GW1 DER

Lab Sample ID: 480-164221-14

Date Collected: 12/10/19 15:05

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	90		25 - 150	12/18/19 10:57	12/24/19 17:12	1
M2-8:2 FTS	95		25 - 150	12/18/19 10:57	12/24/19 17:12	1
13C3 PFBS	92		50 - 150	12/18/19 10:57	12/24/19 17:12	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 1 GW3 DER

Lab Sample ID: 480-164221-15

Date Collected: 12/11/19 09:45

Matrix: Water

Date Received: 12/14/19 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		12/16/19 15:35	12/18/19 05:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				12/16/19 15:35	12/18/19 05:55	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	45		1.9	0.97	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluoropentanoic acid (PFPeA)	11		1.9	0.61	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorohexanoic acid (PFHxA)	8.8		1.9	0.73	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluoroheptanoic acid (PFHpA)	5.8		1.9	0.88	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorooctanoic acid (PFOA)	33		1.9	0.78	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorononanoic acid (PFNA)	4.2		1.9	0.26	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorodecanoic acid (PFDA)	0.80	J	1.9	0.74	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.75	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.57	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.58	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.89	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorobutanesulfonic acid (PFBS)	3.4		1.9	0.47	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorohexanesulfonic acid (PFHxS)	5.2		1.9	0.77	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.92	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorooctanesulfonic acid (PFOS)	7.8		1.9	0.59	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.87	ng/L		12/18/19 10:57	12/24/19 17:20	1
Perfluorooctanesulfonamide (PFOSA)	ND		9.7	9.7	ng/L		12/18/19 10:57	12/24/19 17:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19	1.6	ng/L		12/18/19 10:57	12/24/19 17:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19	1.4	ng/L		12/18/19 10:57	12/24/19 17:20	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		19	5.3	ng/L		12/18/19 10:57	12/24/19 17:20	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	2.8	ng/L		12/18/19 10:57	12/24/19 17:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	97		50 - 150				12/18/19 10:57	12/24/19 17:20	1
13C4 PFHpA	105		50 - 150				12/18/19 10:57	12/24/19 17:20	1
13C4 PFOA	96		50 - 150				12/18/19 10:57	12/24/19 17:20	1
13C4 PFOS	89		50 - 150				12/18/19 10:57	12/24/19 17:20	1
13C5 PFNA	90		50 - 150				12/18/19 10:57	12/24/19 17:20	1
13C4 PFBA	88		25 - 150				12/18/19 10:57	12/24/19 17:20	1
13C2 PFHxA	98		50 - 150				12/18/19 10:57	12/24/19 17:20	1
13C2 PFDA	84		50 - 150				12/18/19 10:57	12/24/19 17:20	1
13C2 PFUnA	83		50 - 150				12/18/19 10:57	12/24/19 17:20	1
13C2 PFDoA	76		50 - 150				12/18/19 10:57	12/24/19 17:20	1
13C8 FOSA	75		25 - 150				12/18/19 10:57	12/24/19 17:20	1
13C5 PFPeA	104		25 - 150				12/18/19 10:57	12/24/19 17:20	1
13C2 PFTeDA	74		50 - 150				12/18/19 10:57	12/24/19 17:20	1
d3-NMeFOSAA	77		50 - 150				12/18/19 10:57	12/24/19 17:20	1
d5-NEtFOSAA	74		50 - 150				12/18/19 10:57	12/24/19 17:20	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 1 GW3 DER

Lab Sample ID: 480-164221-15

Date Collected: 12/11/19 09:45

Matrix: Water

Date Received: 12/14/19 09:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-6:2 FTS	80		25 - 150	12/18/19 10:57	12/24/19 17:20	1
M2-8:2 FTS	83		25 - 150	12/18/19 10:57	12/24/19 17:20	1
13C3 PFBS	109		50 - 150	12/18/19 10:57	12/24/19 17:20	1

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS RW 2 DER

Lab Sample ID: 480-164221-1

Date Collected: 12/12/19 12:34

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 01:16	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 14:53	JM1	TAL BUR

Client Sample ID: FIELD DUP 2

Lab Sample ID: 480-164221-2

Date Collected: 12/12/19 00:00

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 01:39	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 15:01	JM1	TAL BUR

Client Sample ID: CS RW 1 DER

Lab Sample ID: 480-164221-3

Date Collected: 12/12/19 12:10

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510312	12/17/19 22:29	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 15:09	JM1	TAL BUR

Client Sample ID: CS SW 04 DER

Lab Sample ID: 480-164221-4

Date Collected: 12/12/19 11:31

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 00:53	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 15:34	JM1	TAL BUR

Client Sample ID: FIELD DUP

Lab Sample ID: 480-164221-5

Date Collected: 12/12/19 00:00

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 02:03	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 15:59	JM1	TAL BUR

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: AOI 3 GW 2 DER

Lab Sample ID: 480-164221-6

Date Collected: 12/10/19 13:40

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 02:26	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 16:07	JM1	TAL BUR

Client Sample ID: AOI 1 GW 2 DER

Lab Sample ID: 480-164221-7

Date Collected: 12/11/19 12:25

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 02:49	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 16:15	JM1	TAL BUR

Client Sample ID: CS SW 01 DER

Lab Sample ID: 480-164221-8

Date Collected: 12/12/19 09:00

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 03:12	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 16:23	JM1	TAL BUR

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-164221-9

Date Collected: 12/11/19 12:35

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 03:36	RJS	TAL BUF

Client Sample ID: CS SW 05 DER

Lab Sample ID: 480-164221-10

Date Collected: 12/11/19 15:25

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 03:59	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 16:39	JM1	TAL BUR

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Client Sample ID: CS SW 03 DER

Lab Sample ID: 480-164221-11

Date Collected: 12/12/19 10:35

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 04:22	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 16:48	JM1	TAL BUR

Client Sample ID: CS SW 02 DER

Lab Sample ID: 480-164221-12

Date Collected: 12/12/19 09:50

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 04:45	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 16:56	JM1	TAL BUR

Client Sample ID: AOI 1 GW1 DER

Lab Sample ID: 480-164221-13

Date Collected: 12/11/19 11:35

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 05:09	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 17:04	JM1	TAL BUR

Client Sample ID: AOI 3 GW1 DER

Lab Sample ID: 480-164221-14

Date Collected: 12/10/19 15:05

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 05:32	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 17:12	JM1	TAL BUR

Client Sample ID: AOI 1 GW3 DER

Lab Sample ID: 480-164221-15

Date Collected: 12/11/19 09:45

Matrix: Water

Date Received: 12/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			510121	12/16/19 15:35	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	510313	12/18/19 05:55	RJS	TAL BUF
Total/NA	Prep	3535			150841	12/18/19 10:57	MBM	TAL BUR
Total/NA	Analysis	537 (modified)		1	150985	12/24/19 17:20	JM1	TAL BUR

Eurofins TestAmerica, Buffalo

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-20

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

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
537 (modified)	3535	Water	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDaA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (PFOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: New York State D.E.C.
Project/Site: Camp Smith #360140

Job ID: 480-164221-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-164221-1	CS RW 2 DER	Water	12/12/19 12:34	12/14/19 09:00	
480-164221-2	FIELD DUP 2	Water	12/12/19 00:00	12/14/19 09:00	
480-164221-3	CS RW 1 DER	Water	12/12/19 12:10	12/14/19 09:00	
480-164221-4	CS SW 04 DER	Water	12/12/19 11:31	12/14/19 09:00	
480-164221-5	FIELD DUP	Water	12/12/19 00:00	12/14/19 09:00	
480-164221-6	AOI 3 GW 2 DER	Water	12/10/19 13:40	12/14/19 09:00	
480-164221-7	AOI 1 GW 2 DER	Water	12/11/19 12:25	12/14/19 09:00	
480-164221-8	CS SW 01 DER	Water	12/12/19 09:00	12/14/19 09:00	
480-164221-9	EQUIPMENT BLANK	Water	12/11/19 12:35	12/14/19 09:00	
480-164221-10	CS SW 05 DER	Water	12/11/19 15:25	12/14/19 09:00	
480-164221-11	CS SW 03 DER	Water	12/12/19 10:35	12/14/19 09:00	
480-164221-12	CS SW 02 DER	Water	12/12/19 09:50	12/14/19 09:00	
480-164221-13	AOI 1 GW1 DER	Water	12/11/19 11:35	12/14/19 09:00	
480-164221-14	AOI 3 GW1 DER	Water	12/10/19 15:05	12/14/19 09:00	
480-164221-15	AOI 1 GW3 DER	Water	12/11/19 09:45	12/14/19 09:00	

Client Information		Lab PM:		Carrier Tracking Notis:		COC No:	
Company: New York State D.E.C.		Stone, Judy L		480-139255-31338.1		Page: 1 of 2	
Client Contact: Mr. Daniel Lanners		Phone: 518 402 7652		E-Mail: judy.stone@testamericainc.com		Job #:	
Address: 625 Broadway 11th Floor		City: Albany		State, Zip: NY, 12233-3256		Phone:	
Email: daniel.lanners@dec.ny.gov		Project #:		48021404		SSOW#:	
Camp Smith #360140		Site:					
Due Date Requested:		TAT Requested (days):		PO #:		WO #:	
Call Out 137701		Sample Date:		Sample Time:		Sample Type (C=Comp, G=grab)	
Matrix (W=water, S=solid, O=water, A=air)		Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
82700_SIM_MS_ID - 1,4-Dioxane		N		X		X	
Special Instructions/Note:		Total Number of containers:		L - Ew...		Other:	
hydrate		city)					
Preservation Codes:		A - HCL		M - Hexane		N - None	
4-NaO2							
Barcode: 480-164221 Chain of Custody							
Analysis Requested							
Sample Identification		CS RW 2 DER		12/12/19		12:34	
CS RW 1 MSD		12/12/19		12:17		G	
CS RW 1 MS		12/12/19		12:15		G	
Field DUP 2		12/12/19		12:10		G	
CS RW 1 DER		12/12/19		11:33		G	
CS SW 04 MS		12/12/19		11:32		G	
Field DUP		12/12/19		11:31		G	
CS SW 04 MSD							
CS SW 04 DER							
Possible Hazard Identification		☒ Non-Hazard		☐ Flammable		☐ Skin Irritant	
Deliverable Requested: I, II, III, IV, Other (specify)		☐ Poison B		☐ Unknown		☐ Radiological	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Kevin Lanners</i>		12/13/19		1005		Company: <i>Albany</i>	
Relinquished by: <i>Kevin Lanners</i>		12/13/19		1700		Company: <i>Albany</i>	
Relinquished by:		Date:		Time:		Company:	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		#1 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	

Albany

#224 Chain of Custody Record



Environment Testing
 TestAmerica

Client Information		Lab PM		Carrier Tracking No(s)		COC No:		
Company: New York State D.E.C.		Stone, Judy L				480-139255-31338.2		
Address: 625 Broadway 11th Floor		E-Mail: judy.stone@testamericainc.com				Page: 2 of 2		
City: Albany						Job #:		
State, Zip: NY, 12233-3256								
Phone:								
Email: daniel.lanners@dec.ny.gov								
Project Name: Camp Smith #360140								
Site:								
Due Date Requested:		Analysis Requested		Total Number of Containers		Special Instructions/Note:		
TAT Requested (days):								
PO #:								
WO #:								
Project #:								
SSOW#:								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	82700_SIM_MS_ID - 1,4-Dioxane
AOI3 GW2 DER	12-10-19	1340	G	Water		X		
AOI1 GW2 DER	12-11-19	1225	G	Water		X		
CSSW01 DER	12-12-19	0900	G	Water		X		
BOUWIPment Blank	12-11-19	1235	G	Water		X		
CSSW05 DER	12-11-19	1525	G	Water		X		
CSSW03 DER	12-12-19	1035	G	Water		X		
CSSW02 DER	12-12-19	0950	G	Water		X		
AOI1 GW1 DER	12-11-19	1135	G	Water		X		
AOI3 GW1 DER	12-10-19	1505	G	Water		X		
AOI1 GW3 DER	12-11-19	0945	G	Water		X		
Possible Hazard Identification		Date:		Time:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐ Deliverable Requested: I, II, III, IV, Other (specify)		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months		Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		
Relinquished by: <i>Ben Tarned</i>		Date/Time: 12-12-19/1005		Company: <i>Enviro</i>		Company: <i>Enviro</i>		
Relinquished by: <i>Karl Jodan</i>		Date/Time: 12-13-19 1700		Company: <i>Enviro</i>		Company: <i>Enviro</i>		
Relinquished by: <i>Karl Jodan</i>		Date/Time: 12-13-19 1700		Company: <i>Enviro</i>		Company: <i>Enviro</i>		
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Per 01/16/2019				

[illegible]

Client Information		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 480-139254-31337.2	
Company: New York State DEC		E-Mail: judy.stone@testamericainc.com		Page: Page 2 of 2		Job #:	
Address: 625 Broadway 11th Floor		Phone:		Analysis Requested		Preservation Codes:	
City: Albany		TAT Requested (days):		Due Date Requested:		A - HCL M - Hexane N - None O - AsNaO2 P - Na2CO3 Q - Nitric Acid R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
State, Zip: NY, 12233-3256		P.O. #:		Call Out 137701		Other:	
Phone:		WO #:		Project #:		Total Number of containers	
Email: daniel.lanners@dec.ny.gov		48021404		SSOW#:		Special Instructions/Note:	
Project Name: Camp Smith #360140		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Site:		Preservation Code:		Matrix (W=water, S=solid, O=other)		Field Filtered Sample (Yes or No)	
Sample Identification		Perform MS/MSD (Yes or No)		PFC, IDA - PFAS, Standard List (21 analytes)		Special Instructions/Note:	
Field Dup		X		N		Turbid	
CSRW1 DER MSD		12/12/19 1200		X		X	
CSSW04 DER MS		12/12/19 1133		X		X	
Field Dup 2		X		X		X	
CSRW1 DER MS		12/12/19 1200		X		X	
CSRW2 DER		12/12/19 1232		X		X	
CSSW04 DER MSD		12/12/19 1132		X		X	
CSSW02 DER		12/12/19 0945		X		X	
CSRW1 DER		12/12/19 1200		X		X	
CSSW04 DER		12/12/19 1130		X		X	
CSSW03 DER		12/12/19 1030		X		X	
Possible Hazard Identification		Radiological		Poison B		Skin Irritant	
Non-Hazard		Flammable		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:		Date:		Return To Client		Disposal By Lab	
Relinquished by: Ben Lanners		12/12-19/1003		Company: B&B		Archive For	
Relinquished by: Karl Jander		12/13/19 1200		Company: Shapiro		Months	
Relinquished by: Karl Jander		12/13/19 1005		Company: Shapiro		Date/Time	
Custody Seal No.:		Custody Seal Intact:		Cooler Temperature(s) °C and Other Remarks:		Date/Time	
Δ Yes Δ No		Δ Yes Δ No				Company	

Albany

Eurofins TestAmerica, Burlington

30 Community Drive Suite 11

South Burlington, VT 05403

Phone: 802-660-1990 Fax: 802-660-1919

Chain of Custody Record

#224



Environment Testing
TestAmerica

Client Information Client Contact: Mr. Daniel Lanners Company: New York State D.E.C. Address: 625 Broadway 11th Floor City: Albany State, Zip: NY, 12233-3256 Phone: Email: daniel.lanners@dec.ny.gov Project Name: Camp Smith #360140 Site:		Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com Carrier Tracking No(s): COC No: 480-139254-31337.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: Call Out 137701 WO #: Project #: 48021404 SSOW#:		Analysis Requested  480-154221 Chain of Custody	
Sample Identification Field ID: CSRW1 DER MSD CSSW04 DER MS Field ID: CSRW1 DER MS CSRW2 DER CSW04 DER MSD CSSW02 DER CSRW1 DER CSSW04 DER CSW03 DER		Matrix (W=Water, S=Soil, O=Water/Oil, BT=Tissue, A=Air) Water Water Water Water Water Water Water Water Water Water	
Sample Date 12/12/19 12/12/19 12/12/19 12/12/19 12/12/19 12/12/19 12/12/19 12/12/19 12/12/19 12/12/19		Sample Time 1200 1133 1200 1232 1132 0845 1200 1130 1030	
Sample Type (C=Comp, G=Grab) Preservation Code:		Field Filtered Sample (Yes or No) PFC, IDA - PFA, Standard List (21 analytes)	
Total Number of Containers		Special Instructions/Note: 6.6 10	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Special Instructions/QC Requirements:			
Empty Kit Relinquished by: Ben Hennessey Relinquished by: Karl-Jochen Relinquished by:		Date/Time: 12/22/19/1003 Date/Time: 12/13/19 1200 Date/Time:	
Company: TestAmerica Company:		Company: NYS DEC Company: Bluckins Company:	
Custody Seals Intact: Delta Yes Delta No		Cooler Temperature(s) °C and Other Remarks: 0.6	

Albany
#224

Chain of Custody Record

Environment Testing
TestAmerica

Client Information Client Contact: Mr. Daniel Lanners Company: New York State D.E.C. Address: 625 Broadway 11th Floor City: Albany State, Zip: NY, 12233-3256 Phone: 518 402 9652 Email: daniel.lanners@dec.ny.gov Project Name: Camp Smith #360140 Site:		Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com Carrier Tracking No(s): COC No: 480-139254-31337.1 Page: Page 1 of 2 Job #:	
Analysis Requested Due Date Requested: TAT Requested (days): PO #: Call Out 137701 WO #: Project #: 48021404 SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) Preservation Code Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) PFC, IDA - PFAS, Standard List (21 analytes)		Total Number of containers Special Instructions/Note: TURBID	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Relinquished by: <i>Kevin Townsend</i> Relinquished by: <i>Rafael Zacher</i> Relinquished by:		Received by: <i>Kevin Zacher</i> Received by: <i>Taylor Johnson</i> Received by:	
Date/Time: 12/13/19 1005 Date/Time: 12/13/19 1700 Date/Time:		Date/Time: 12/13/19 1005 Date/Time: 12/14/19 0957 Date/Time:	
Company: <i>TestAmerica</i> Company: <i>TestAmerica</i> Company:		Company: <i>TestAmerica</i> Company: <i>TestAmerica</i> Company:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 0.6	

ORIGIN ID: SCHA (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 13DEC19
ACTWGT: 54.35 LB
CAD: 0439821/CAFE3211
DIMS: 26x15x14 IN

BILL THIRD PARTY

TO **SAMPLE RECEIVING**
TESTAMERICA - BURLINGTON
30 COMMUNITY DRIVE, SUITE 11

BURLINGTON VT 05403

(802) 660-1990

REF: NYSDAE PFAS



TRK#
0201 1034 8840 0701

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403

VT-US **BTV**



Part # 156148-434 RIT EXP 09/19

55102/18m/104c

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-164221-1

Login Number: 164221

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, 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.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	NYS DEC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-164221-1

Login Number: 164221

List Source: Eurofins TestAmerica, Burlington

List Number: 2

List Creation: 12/16/19 01:43 PM

Creator: Mohn, Taylor J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1138071
Sample custody seals, if present, are 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.	True	
Cooler Temperature is recorded.	True	0.6°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	