

Norlite Environmental Sampling Report
New York State Department of Environmental Conservation
March 2021

NYSDEC
625 Broadway
Albany, NY 12233

Appendix E – Analytical Reports / Data Usability

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-66212-1

Client Project/Site: Norlite - Cohoes #401041

For:

New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Lynn M Winterberger



Authorized for release by:
11/11/2020 4:24:38 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	8
Isotope Dilution Summary	20
QC Sample Results	22
QC Association Summary	27
Lab Chronicle	28
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Receipt Checklists	35

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Qualifiers

LCMS

Qualifier	Qualifier Description
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
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: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

ID: 320-66212-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Narrative 320-66212-1

Receipt

The samples were received on 10/31/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.5° C and 0.7° C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): HFW2-Water-10302020 (320-66212-2[MS]) and HFW2-Water-10302020 (320-66212-2[MSD]). The container labels list HFW-Water-10302020, while the COC lists HFW2-Water-10302020. The samples were labeled according to the COC.

LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgement was used to positively identify the analyte. HFW3-Water-10302020 (320-66212-3), HFSCW2-Water-10302020 (320-66212-8) and HFSCW1-Water-10302020 (320-66212-9)

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

Organic Prep

Method 3535: The following samples were beige prior to extraction: HFPCW2-Water-10302020 (320-66212-1), HFW2-Water-10302020 (320-66212-2), HFW2-Water-10302020 (320-66212-2[MS]), HFW2-Water-10302020 (320-66212-2[MSD]), HFW3-Water-10302020 (320-66212-3), HFW4-Water-10302020 (320-66212-4), HFW DUP 10302020 (320-66212-5), HFSCW2-Water-10302020 (320-66212-8), HFSCW1-Water-10302020 (320-66212-9), HFW1-Water-10302020 (320-66212-10), HFPCW3-Water-10302020 (320-66212-11) and HFPCW4-Water-10302020 (320-66212-12)

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFPCW2-W ter-10302020

Lab Sample ID: 320-66212-1

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.8		4.8	.3	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.1		.9	.47	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.1		.9	.55	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.3		.9	.24	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.2		.9	.81	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.52	J	.9	.26	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.3		.9	.19	ng/L			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.3		.9	.54	ng/L			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.8		.9	.52	ng/L			537 (modified)	Total/NA

Client Sample ID: HFW2-W ter-10302020

Lab Sample ID: 320-66212-2

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.3	J	4.7	.3	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		.9	.46	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.2		.9	.54	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.3	J	.9	.23	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.9		.9	.80	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.31	J	.9	.25	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.7		.9	.19	ng/L			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.0	J	.9	.54	ng/L			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.8	J	.9	.51	ng/L			537 (modified)	Total/NA

Client Sample ID: HFW3-W ter-10302020

Lab Sample ID: 320-66212-3

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.1	J	4.9	.3	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.2		.9	.48	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.7		.9	.56	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.4	J	.9	.24	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.8	J	.9	.83	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.38	J I	.9	.26	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.2		.9	.19	ng/L			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.0	J	.9	.55	ng/L			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.2	I	.9	.52	ng/L			537 (modified)	Total/NA

Client Sample ID: HFW4-W ter-10302020

Lab Sample ID: 320-66212-4

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.6		4.6	.2	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.4		.8	.45	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.1		.8	.54	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.9		.8	.23	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.1		.8	.79	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.38	J	.8	.25	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.5		.8	.18	ng/L			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.3	J	.8	.53	ng/L			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.2		.8	.50	ng/L			537 (modified)	Total/NA
:2 FTS	.6	J	4.6	.3	ng/L			537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW DUP 10302020

Lab Sample ID: 320-66212-5

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.7	J	4.8	.3	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.3		.9	.47	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.9		.9	.56	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.9		.9	.24	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.0		.9	.82	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.33	J	.9	.26	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.9		.9	.19	ng/L			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.1	J	.9	.55	ng/L			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.2		.9	.52	ng/L			537 (modified)	Total/NA
:2 FTS	.7	J	4.8	.4	ng/L			537 (modified)	Total/NA

Client Sample ID: HFW-Equipment Blank-10302020

Lab Sample ID: 320-66212-6

No Detections.

Client Sample ID: HFW-Field Blank-10302020

Lab Sample ID: 320-66212-7

No Detections.

Client Sample ID: HFSCW2-W ter-10302020

Lab Sample ID: 320-66212-8

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.7	J	4.7	.3	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.4	J	.9	.46	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.1	J	.9	.54	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.83	J	.9	.23	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.4	J	.9	.80	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.34	J	.9	.25	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.72	J	.9	.19	ng/L			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.95	J I	.9	.51	ng/L			537 (modified)	Total/NA

Client Sample ID: HFSCW1-W ter-10302020

Lab Sample ID: 320-66212-9

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.9	J	4.8	.3	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.9		.9	.47	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.4	J	.9	.56	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.80	J	.9	.24	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.8	J	.9	.82	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.35	J	.9	.26	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.8	J I	.9	.19	ng/L			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.1	J	.9	.52	ng/L			537 (modified)	Total/NA

Client Sample ID: HFW1-W ter-10302020

Lab Sample ID: 320-66212-10

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.7	J	4.6	.2	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.8		.8	.45	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.8		.8	.53	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.2	J	.8	.23	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.8		.8	.78	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.48	J	.8	.25	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.6		.8	.18	ng/L			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.97	J	.8	.52	ng/L			537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW1-W ter-10302020 (Continued)

Lab Sample ID: 320-66212-10

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	2.9		.8	.50	ng/L			537 (modified)	Total/NA

Client Sample ID: HFPCW3-W ter-10302020

Lab Sample ID: 320-66212-11

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.1		4.9	.3	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.2		.9	.48	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.8		.9	.56	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.3		.9	.24	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.0		.9	.83	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.41	J	.9	.26	ng/L			537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.35	J	.9	.30	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.3		.9	.19	ng/L			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.8		.9	.55	ng/L			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.5		.9	.52	ng/L			537 (modified)	Total/NA

Client Sample ID: HFPCW4-W ter-10302020

Lab Sample ID: 320-66212-12

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.5		4.6	.2	ng/L			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.1		.9	.45	ng/L			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.7		.9	.54	ng/L			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.4		.9	.23	ng/L			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.4		.9	.79	ng/L			537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.39	J	.9	.25	ng/L			537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.35	J	.9	.29	ng/L			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.0		.9	.19	ng/L			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.5		.9	.53	ng/L			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.5		.9	.50	ng/L			537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFPCW2-W ter-10302020

Lab Sample ID: 320-66212-1

Date Collected: 10/30/20 09:45

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.8		4.8	.3	ng/L		19:24	4/20 06:1	
Perfluoropentanoic acid (PFPeA)	5.1		.9	.47	ng/L		19:24	4/20 06:1	
Perfluorohexanoic acid (PFHxA)	5.1		.9	.55	ng/L		19:24	4/20 06:1	
Perfluoroheptanoic acid (PFHpA)	2.3		.9	.24	ng/L		19:24	4/20 06:1	
Perfluorooctanoic acid (PFOA)	3.2		.9	.81	ng/L		19:24	4/20 06:1	
Perfluorononanoic acid (PFNA)	0.52 J		.9	.26	ng/L		19:24	4/20 06:1	
Perfluorodecanoic acid (PFDA)	ND		.9	.30	ng/L		19:24	4/20 06:1	
Perfluoroundecanoic acid (PFUnA)	ND		.9	.1	ng/L		19:24	4/20 06:1	
Perfluorododecanoic acid (PFDoA)	ND		.9	.53	ng/L		19:24	4/20 06:1	
Perfluorotridecanoic acid (PFTriA)	ND		.9	.2	ng/L		19:24	4/20 06:1	
Perfluorotetradecanoic acid (PFTeA)	ND		.9	.70	ng/L		19:24	4/20 06:1	
Perfluorobutanesulfonic acid (PFBS)	2.3		.9	.19	ng/L		19:24	4/20 06:1	
Perfluorohexanesulfonic acid (PFHxS)	2.3		.9	.54	ng/L		19:24	4/20 06:1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.9	.18	ng/L		19:24	4/20 06:1	
Perfluorooctanesulfonic acid (PFOS)	4.8		.9	.52	ng/L		19:24	4/20 06:1	
Perfluorodecanesulfonic acid (PFDS)	ND		.9	.31	ng/L		19:24	4/20 06:1	
Perfluorooctanesulfonamide (FOSA)	ND		.9	.94	ng/L		19:24	4/20 06:1	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	.1	ng/L		19:24	4/20 06:1	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	.2	ng/L		19:24	4/20 06:1	
:2 FTS	ND		4.8	.4	ng/L		19:24	4/20 06:1	
8:2 FTS	ND		.9	.44	ng/L		19:24	4/20 06:1	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			- 150	11/02/20 19:24	11/04/20 06:11	1
13C5 PFPeA	75		- 150	11/02/20 19:24	11/04/20 06:11	1
13C2 PFHxA			- 150	11/02/20 19:24	11/04/20 06:11	1
13C4 PFHpA			- 150	11/02/20 19:24	11/04/20 06:11	1
13C4 PFOA	104		- 150	11/02/20 19:24	11/04/20 06:11	1
13C5 PFNA	105		- 150	11/02/20 19:24	11/04/20 06:11	1
13C2 PFDA	100		- 150	11/02/20 19:24	11/04/20 06:11	1
13C2 PFUnA	103		- 150	11/02/20 19:24	11/04/20 06:11	1
13C2 PFDoA	87		- 150	11/02/20 19:24	11/04/20 06:11	1
13C2 PFTeDA			- 150	11/02/20 19:24	11/04/20 06:11	1
13C3 PFBS	87		- 150	11/02/20 19:24	11/04/20 06:11	1
18O2 PFHxS	8		- 150	11/02/20 19:24	11/04/20 06:11	1
13C4 PFOS	101		- 150	11/02/20 19:24	11/04/20 06:11	1
13C8 FOSA	104		- 150	11/02/20 19:24	11/04/20 06:11	1
d3-NMeFOSAA	102		- 150	11/02/20 19:24	11/04/20 06:11	1
-NEtFOSAA	7		- 150	11/02/20 19:24	11/04/20 06:11	1
M2-6:2 FTS	114		- 150	11/02/20 19:24	11/04/20 06:11	1
M2-8:2 FTS	108		- 150	11/02/20 19:24	11/04/20 06:11	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW2-W ter-10302020

Lab Sample ID: 320-66212-2

Date Collected: 10/30/20 11:30

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.3	J	4.7	.3	ng/L		19:24	4/20 06:20	
Perfluoropentanoic acid (PFPeA)	3.4		.9	.46	ng/L		19:24	4/20 06:20	
Perfluorohexanoic acid (PFHxA)	2.2		.9	.54	ng/L		19:24	4/20 06:20	
Perfluoroheptanoic acid (PFHpA)	1.3	J	.9	.23	ng/L		19:24	4/20 06:20	
Perfluorooctanoic acid (PFOA)	1.9		.9	.80	ng/L		19:24	4/20 06:20	
Perfluorononanoic acid (PFNA)	0.31	J	.9	.25	ng/L		19:24	4/20 06:20	
Perfluorodecanoic acid (PFDA)	ND		.9	.29	ng/L		19:24	4/20 06:20	
Perfluoroundecanoic acid (PFUnA)	ND		.9	.0	ng/L		19:24	4/20 06:20	
Perfluorododecanoic acid (PFDoA)	ND		.9	.52	ng/L		19:24	4/20 06:20	
Perfluorotridecanoic acid (PFTriA)	ND		.9	.2	ng/L		19:24	4/20 06:20	
Perfluorotetradecanoic acid (PFTeA)	ND		.9	.69	ng/L		19:24	4/20 06:20	
Perfluorobutanesulfonic acid (PFBS)	2.7		.9	.19	ng/L		19:24	4/20 06:20	
Perfluorohexanesulfonic acid (PFHxS)	1.0	J	.9	.54	ng/L		19:24	4/20 06:20	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.9	.18	ng/L		19:24	4/20 06:20	
Perfluorooctanesulfonic acid (PFOS)	1.8	J	.9	.51	ng/L		19:24	4/20 06:20	
Perfluorodecanesulfonic acid (PFDS)	ND		.9	.30	ng/L		19:24	4/20 06:20	
Perfluorooctanesulfonamide (FOSA)	ND		.9	.92	ng/L		19:24	4/20 06:20	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	.1	ng/L		19:24	4/20 06:20	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	.2	ng/L		19:24	4/20 06:20	
:2 FTS	ND		4.7	.3	ng/L		19:24	4/20 06:20	
8:2 FTS	ND		.9	.43	ng/L		19:24	4/20 06:20	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			- 150	11/02/20 19:24	11/04/20 06:20	1
13C5 PFPeA			- 150	11/02/20 19:24	11/04/20 06:20	1
13C2 PFHxA	8		- 150	11/02/20 19:24	11/04/20 06:20	1
13C4 PFHpA	102		- 150	11/02/20 19:24	11/04/20 06:20	1
13C4 PFOA	112		- 150	11/02/20 19:24	11/04/20 06:20	1
13C5 PFNA	112		- 150	11/02/20 19:24	11/04/20 06:20	1
13C2 PFDA	106		- 150	11/02/20 19:24	11/04/20 06:20	1
13C2 PFUnA	110		- 150	11/02/20 19:24	11/04/20 06:20	1
13C2 PFDoA	84		- 150	11/02/20 19:24	11/04/20 06:20	1
13C2 PFTeDA	7		- 150	11/02/20 19:24	11/04/20 06:20	1
13C3 PFBS	83		- 150	11/02/20 19:24	11/04/20 06:20	1
18O2 PFHxS	7		- 150	11/02/20 19:24	11/04/20 06:20	1
13C4 PFOS	104		- 150	11/02/20 19:24	11/04/20 06:20	1
13C8 FOSA	116		- 150	11/02/20 19:24	11/04/20 06:20	1
d3-NMeFOSAA	101		- 150	11/02/20 19:24	11/04/20 06:20	1
-NEtFOSAA			- 150	11/02/20 19:24	11/04/20 06:20	1
M2-6:2 FTS	113		- 150	11/02/20 19:24	11/04/20 06:20	1
M2-8:2 FTS	115		- 150	11/02/20 19:24	11/04/20 06:20	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW3-W ter-10302020

Lab Sample ID: 320-66212-3

Date Collected: 10/30/20 12:40

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.1	J	4.9	.3	ng/L		19:24	4/20 06:48	
Perfluoropentanoic acid (PFPeA)	4.2		.9	.48	ng/L		19:24	4/20 06:48	
Perfluorohexanoic acid (PFHxA)	2.7		.9	.56	ng/L		19:24	4/20 06:48	
Perfluoroheptanoic acid (PFHpA)	1.4	J	.9	.24	ng/L		19:24	4/20 06:48	
Perfluorooctanoic acid (PFOA)	1.8	J	.9	.83	ng/L		19:24	4/20 06:48	
Perfluorononanoic acid (PFNA)	0.38	J I	.9	.26	ng/L		19:24	4/20 06:48	
Perfluorodecanoic acid (PFDA)	ND		.9	.30	ng/L		19:24	4/20 06:48	
Perfluoroundecanoic acid (PFUnA)	ND		.9	.1	ng/L		19:24	4/20 06:48	
Perfluorododecanoic acid (PFDoA)	ND		.9	.53	ng/L		19:24	4/20 06:48	
Perfluorotridecanoic acid (PFTriA)	ND		.9	.3	ng/L		19:24	4/20 06:48	
Perfluorotetradecanoic acid (PFTeA)	ND		.9	.71	ng/L		19:24	4/20 06:48	
Perfluorobutanesulfonic acid (PFBS)	2.2		.9	.19	ng/L		19:24	4/20 06:48	
Perfluorohexanesulfonic acid (PFHxS)	1.0	J	.9	.55	ng/L		19:24	4/20 06:48	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.9	.18	ng/L		19:24	4/20 06:48	
Perfluorooctanesulfonic acid (PFOS)	2.2	I	.9	.52	ng/L		19:24	4/20 06:48	
Perfluorodecanesulfonic acid (PFDS)	ND		.9	.31	ng/L		19:24	4/20 06:48	
Perfluorooctanesulfonamide (FOSA)	ND		.9	.95	ng/L		19:24	4/20 06:48	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.9	.2	ng/L		19:24	4/20 06:48	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.9	.3	ng/L		19:24	4/20 06:48	
:2 FTS	ND		4.9	.4	ng/L		19:24	4/20 06:48	
8:2 FTS	ND		.9	.45	ng/L		19:24	4/20 06:48	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			- 150	11/02/20 19:24	11/04/20 06:48	1
13C5 PFPeA			- 150	11/02/20 19:24	11/04/20 06:48	1
13C2 PFHxA	3		- 150	11/02/20 19:24	11/04/20 06:48	1
13C4 PFHpA	102		- 150	11/02/20 19:24	11/04/20 06:48	1
13C4 PFOA	107		- 150	11/02/20 19:24	11/04/20 06:48	1
13C5 PFNA	108		- 150	11/02/20 19:24	11/04/20 06:48	1
13C2 PFDA	102		- 150	11/02/20 19:24	11/04/20 06:48	1
13C2 PFUnA			- 150	11/02/20 19:24	11/04/20 06:48	1
13C2 PFDoA	79		- 150	11/02/20 19:24	11/04/20 06:48	1
13C2 PFTeDA			- 150	11/02/20 19:24	11/04/20 06:48	1
13C3 PFBS	83		- 150	11/02/20 19:24	11/04/20 06:48	1
18O2 PFHxS	102		- 150	11/02/20 19:24	11/04/20 06:48	1
13C4 PFOS	103		- 150	11/02/20 19:24	11/04/20 06:48	1
13C8 FOSA	114		- 150	11/02/20 19:24	11/04/20 06:48	1
d3-NMeFOSAA	3		- 150	11/02/20 19:24	11/04/20 06:48	1
-NEtFOSAA			- 150	11/02/20 19:24	11/04/20 06:48	1
M2-6:2 FTS	110		- 150	11/02/20 19:24	11/04/20 06:48	1
M2-8:2 FTS	109		- 150	11/02/20 19:24	11/04/20 06:48	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW4-W ter-10302020

Lab Sample ID: 320-66212-4

Date Collected: 10/30/20 13:05

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.6		4.6	.2	ng/L		19:24	4/20 06:58	
Perfluoropentanoic acid (PFPeA)	6.4		.8	.45	ng/L		19:24	4/20 06:58	
Perfluorohexanoic acid (PFHxA)	4.1		.8	.54	ng/L		19:24	4/20 06:58	
Perfluoroheptanoic acid (PFHpA)	1.9		.8	.23	ng/L		19:24	4/20 06:58	
Perfluorooctanoic acid (PFOA)	2.1		.8	.79	ng/L		19:24	4/20 06:58	
Perfluorononanoic acid (PFNA)	0.38	J	.8	.25	ng/L		19:24	4/20 06:58	
Perfluorodecanoic acid (PFDA)	ND		.8	.29	ng/L		19:24	4/20 06:58	
Perfluoroundecanoic acid (PFUnA)	ND		.8	.0	ng/L		19:24	4/20 06:58	
Perfluorododecanoic acid (PFDoA)	ND		.8	.51	ng/L		19:24	4/20 06:58	
Perfluorotridecanoic acid (PFTriA)	ND		.8	.2	ng/L		19:24	4/20 06:58	
Perfluorotetradecanoic acid (PFTeA)	ND		.8	.68	ng/L		19:24	4/20 06:58	
Perfluorobutanesulfonic acid (PFBS)	2.5		.8	.18	ng/L		19:24	4/20 06:58	
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	.8	.53	ng/L		19:24	4/20 06:58	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.8	.18	ng/L		19:24	4/20 06:58	
Perfluorooctanesulfonic acid (PFOS)	2.2		.8	.50	ng/L		19:24	4/20 06:58	
Perfluorodecanesulfonic acid (PFDS)	ND		.8	.30	ng/L		19:24	4/20 06:58	
Perfluorooctanesulfonamide (FOSA)	ND		.8	.91	ng/L		19:24	4/20 06:58	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	.1	ng/L		19:24	4/20 06:58	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	.2	ng/L		19:24	4/20 06:58	
6:2 FTS	2.6	J	4.6	.3	ng/L		19:24	4/20 06:58	
8:2 FTS	ND		.8	.43	ng/L		19:24	4/20 06:58	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	4		- 150	11/02/20 19:24	11/04/20 06:58	1
13C5 PFPeA	3		- 150	11/02/20 19:24	11/04/20 06:58	1
13C2 PFHxA	87		- 150	11/02/20 19:24	11/04/20 06:58	1
13C4 PFHpA	1		- 150	11/02/20 19:24	11/04/20 06:58	1
13C4 PFOA	8		- 150	11/02/20 19:24	11/04/20 06:58	1
13C5 PFNA			- 150	11/02/20 19:24	11/04/20 06:58	1
13C2 PFDA			- 150	11/02/20 19:24	11/04/20 06:58	1
13C2 PFUnA			- 150	11/02/20 19:24	11/04/20 06:58	1
13C2 PFDoA	89		- 150	11/02/20 19:24	11/04/20 06:58	1
13C2 PFTeDA	8		- 150	11/02/20 19:24	11/04/20 06:58	1
13C3 PFBS	76		- 150	11/02/20 19:24	11/04/20 06:58	1
18O2 PFHxS	0		- 150	11/02/20 19:24	11/04/20 06:58	1
13C4 PFOS			- 150	11/02/20 19:24	11/04/20 06:58	1
13C8 FOSA	106		- 150	11/02/20 19:24	11/04/20 06:58	1
d3-NMeFOSAA			- 150	11/02/20 19:24	11/04/20 06:58	1
-NEtFOSAA			- 150	11/02/20 19:24	11/04/20 06:58	1
M2-6:2 FTS			- 150	11/02/20 19:24	11/04/20 06:58	1
M2-8:2 FTS			- 150	11/02/20 19:24	11/04/20 06:58	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW DUP 10302020

Lab Sample ID: 320-66212-5

Date Collected: 10/30/20 00:00

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.7	J	4.8	.3	ng/L		19:24	4/20 07:07	
Perfluoropentanoic acid (PFPeA)	6.3		.9	.47	ng/L		19:24	4/20 07:07	
Perfluorohexanoic acid (PFHxA)	3.9		.9	.56	ng/L		19:24	4/20 07:07	
Perfluoroheptanoic acid (PFHpA)	1.9		.9	.24	ng/L		19:24	4/20 07:07	
Perfluorooctanoic acid (PFOA)	2.0		.9	.82	ng/L		19:24	4/20 07:07	
Perfluorononanoic acid (PFNA)	0.33	J	.9	.26	ng/L		19:24	4/20 07:07	
Perfluorodecanoic acid (PFDA)	ND		.9	.30	ng/L		19:24	4/20 07:07	
Perfluoroundecanoic acid (PFUnA)	ND		.9	.1	ng/L		19:24	4/20 07:07	
Perfluorododecanoic acid (PFDoA)	ND		.9	.53	ng/L		19:24	4/20 07:07	
Perfluorotridecanoic acid (PFTriA)	ND		.9	.2	ng/L		19:24	4/20 07:07	
Perfluorotetradecanoic acid (PFTeA)	ND		.9	.70	ng/L		19:24	4/20 07:07	
Perfluorobutanesulfonic acid (PFBS)	2.9		.9	.19	ng/L		19:24	4/20 07:07	
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	.9	.55	ng/L		19:24	4/20 07:07	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.9	.18	ng/L		19:24	4/20 07:07	
Perfluorooctanesulfonic acid (PFOS)	2.2		.9	.52	ng/L		19:24	4/20 07:07	
Perfluorodecanesulfonic acid (PFDS)	ND		.9	.31	ng/L		19:24	4/20 07:07	
Perfluorooctanesulfonamide (FOSA)	ND		.9	.94	ng/L		19:24	4/20 07:07	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	.2	ng/L		19:24	4/20 07:07	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	.2	ng/L		19:24	4/20 07:07	
6:2 FTS	2.7	J	4.8	.4	ng/L		19:24	4/20 07:07	
8:2 FTS	ND		.9	.44	ng/L		19:24	4/20 07:07	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	7		- 150	11/02/20 19:24	11/04/20 07:07	1
13C5 PFPeA	4		- 150	11/02/20 19:24	11/04/20 07:07	1
13C2 PFHxA	89		- 150	11/02/20 19:24	11/04/20 07:07	1
13C4 PFHpA	4		- 150	11/02/20 19:24	11/04/20 07:07	1
13C4 PFOA	103		- 150	11/02/20 19:24	11/04/20 07:07	1
13C5 PFNA	105		- 150	11/02/20 19:24	11/04/20 07:07	1
13C2 PFDA	101		- 150	11/02/20 19:24	11/04/20 07:07	1
13C2 PFUnA	102		- 150	11/02/20 19:24	11/04/20 07:07	1
13C2 PFDoA	86		- 150	11/02/20 19:24	11/04/20 07:07	1
13C2 PFTeDA			- 150	11/02/20 19:24	11/04/20 07:07	1
13C3 PFBS	74		- 150	11/02/20 19:24	11/04/20 07:07	1
18O2 PFHxS			- 150	11/02/20 19:24	11/04/20 07:07	1
13C4 PFOS	7		- 150	11/02/20 19:24	11/04/20 07:07	1
13C8 FOSA	108		- 150	11/02/20 19:24	11/04/20 07:07	1
d3-NMeFOSAA	3		- 150	11/02/20 19:24	11/04/20 07:07	1
-NEtFOSAA	4		- 150	11/02/20 19:24	11/04/20 07:07	1
M2-6:2 FTS			- 150	11/02/20 19:24	11/04/20 07:07	1
M2-8:2 FTS	102		- 150	11/02/20 19:24	11/04/20 07:07	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW-Equipment Blank-10302020

Lab Sample ID: 320-66212-6

Date Collected: 10/30/20 13:40

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.7	.3	ng/L		19:24	4/20 07:17	
Perfluoropentanoic acid (PFPeA)	ND		.9	.46	ng/L		19:24	4/20 07:17	
Perfluorohexanoic acid (PFHxA)	ND		.9	.55	ng/L		19:24	4/20 07:17	
Perfluoroheptanoic acid (PFHpA)	ND		.9	.24	ng/L		19:24	4/20 07:17	
Perfluorooctanoic acid (PFOA)	ND		.9	.80	ng/L		19:24	4/20 07:17	
Perfluorononanoic acid (PFNA)	ND		.9	.25	ng/L		19:24	4/20 07:17	
Perfluorodecanoic acid (PFDA)	ND		.9	.29	ng/L		19:24	4/20 07:17	
Perfluoroundecanoic acid (PFUnA)	ND		.9	.0	ng/L		19:24	4/20 07:17	
Perfluorododecanoic acid (PFDoA)	ND		.9	.52	ng/L		19:24	4/20 07:17	
Perfluorotridecanoic acid (PFTriA)	ND		.9	.2	ng/L		19:24	4/20 07:17	
Perfluorotetradecanoic acid (PFTeA)	ND		.9	.69	ng/L		19:24	4/20 07:17	
Perfluorobutanesulfonic acid (PFBS)	ND		.9	.19	ng/L		19:24	4/20 07:17	
Perfluorohexanesulfonic acid (PFHxS)	ND		.9	.54	ng/L		19:24	4/20 07:17	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.9	.18	ng/L		19:24	4/20 07:17	
Perfluorooctanesulfonic acid (PFOS)	ND		.9	.51	ng/L		19:24	4/20 07:17	
Perfluorodecanesulfonic acid (PFDS)	ND		.9	.30	ng/L		19:24	4/20 07:17	
Perfluorooctanesulfonamide (FOSA)	ND		.9	.92	ng/L		19:24	4/20 07:17	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	.1	ng/L		19:24	4/20 07:17	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	.2	ng/L		19:24	4/20 07:17	
:2 FTS	ND		4.7	.4	ng/L		19:24	4/20 07:17	
8:2 FTS	ND		.9	.43	ng/L		19:24	4/20 07:17	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	8		- 150	11/02/20 19:24	11/04/20 07:17	1
13C5 PFPeA	103		- 150	11/02/20 19:24	11/04/20 07:17	1
13C2 PFHxA	103		- 150	11/02/20 19:24	11/04/20 07:17	1
13C4 PFHpA	108		- 150	11/02/20 19:24	11/04/20 07:17	1
13C4 PFOA	109		- 150	11/02/20 19:24	11/04/20 07:17	1
13C5 PFNA	107		- 150	11/02/20 19:24	11/04/20 07:17	1
13C2 PFDA	108		- 150	11/02/20 19:24	11/04/20 07:17	1
13C2 PFUnA	114		- 150	11/02/20 19:24	11/04/20 07:17	1
13C2 PFDoA	83		- 150	11/02/20 19:24	11/04/20 07:17	1
13C2 PFTeDA	102		- 150	11/02/20 19:24	11/04/20 07:17	1
13C3 PFBS	102		- 150	11/02/20 19:24	11/04/20 07:17	1
18O2 PFHxS	108		- 150	11/02/20 19:24	11/04/20 07:17	1
13C4 PFOS	108		- 150	11/02/20 19:24	11/04/20 07:17	1
13C8 FOSA	114		- 150	11/02/20 19:24	11/04/20 07:17	1
d3-NMeFOSAA			- 150	11/02/20 19:24	11/04/20 07:17	1
-NEtFOSAA	7		- 150	11/02/20 19:24	11/04/20 07:17	1
M2-6:2 FTS	8		- 150	11/02/20 19:24	11/04/20 07:17	1
M2-8:2 FTS	100		- 150	11/02/20 19:24	11/04/20 07:17	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW-Field Blank-10302020

Lab Sample ID: 320-66212-7

Date Collected: 10/30/20 13:45

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6	.2	ng/L		19:24	4/20 07:45	
Perfluoropentanoic acid (PFPeA)	ND		.8	.45	ng/L		19:24	4/20 07:45	
Perfluorohexanoic acid (PFHxA)	ND		.8	.53	ng/L		19:24	4/20 07:45	
Perfluoroheptanoic acid (PFHpA)	ND		.8	.23	ng/L		19:24	4/20 07:45	
Perfluorooctanoic acid (PFOA)	ND		.8	.78	ng/L		19:24	4/20 07:45	
Perfluorononanoic acid (PFNA)	ND		.8	.25	ng/L		19:24	4/20 07:45	
Perfluorodecanoic acid (PFDA)	ND		.8	.28	ng/L		19:24	4/20 07:45	
Perfluoroundecanoic acid (PFUnA)	ND		.8	.0	ng/L		19:24	4/20 07:45	
Perfluorododecanoic acid (PFDoA)	ND		.8	.50	ng/L		19:24	4/20 07:45	
Perfluorotridecanoic acid (PFTriA)	ND		.8	.2	ng/L		19:24	4/20 07:45	
Perfluorotetradecanoic acid (PFTeA)	ND		.8	.67	ng/L		19:24	4/20 07:45	
Perfluorobutanesulfonic acid (PFBS)	ND		.8	.18	ng/L		19:24	4/20 07:45	
Perfluorohexanesulfonic acid (PFHxS)	ND		.8	.52	ng/L		19:24	4/20 07:45	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.8	.17	ng/L		19:24	4/20 07:45	
Perfluorooctanesulfonic acid (PFOS)	ND		.8	.49	ng/L		19:24	4/20 07:45	
Perfluorodecanesulfonic acid (PFDS)	ND		.8	.29	ng/L		19:24	4/20 07:45	
Perfluorooctanesulfonamide (FOSA)	ND		.8	.90	ng/L		19:24	4/20 07:45	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	.1	ng/L		19:24	4/20 07:45	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	.2	ng/L		19:24	4/20 07:45	
:2 FTS	ND		4.6	.3	ng/L		19:24	4/20 07:45	
8:2 FTS	ND		.8	.42	ng/L		19:24	4/20 07:45	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	89		- 150	11/02/20 19:24	11/04/20 07:45	1
13C5 PFPeA	4		- 150	11/02/20 19:24	11/04/20 07:45	1
13C2 PFHxA	88		- 150	11/02/20 19:24	11/04/20 07:45	1
13C4 PFHpA	4		- 150	11/02/20 19:24	11/04/20 07:45	1
13C4 PFOA	101		- 150	11/02/20 19:24	11/04/20 07:45	1
13C5 PFNA	1		- 150	11/02/20 19:24	11/04/20 07:45	1
13C2 PFDA	87		- 150	11/02/20 19:24	11/04/20 07:45	1
13C2 PFUnA	1		- 150	11/02/20 19:24	11/04/20 07:45	1
13C2 PFDoA	77		- 150	11/02/20 19:24	11/04/20 07:45	1
13C2 PFTeDA			- 150	11/02/20 19:24	11/04/20 07:45	1
13C3 PFBS	88		- 150	11/02/20 19:24	11/04/20 07:45	1
18O2 PFHxS	4		- 150	11/02/20 19:24	11/04/20 07:45	1
13C4 PFOS	8		- 150	11/02/20 19:24	11/04/20 07:45	1
13C8 FOSA			- 150	11/02/20 19:24	11/04/20 07:45	1
d3-NMeFOSAA	80		- 150	11/02/20 19:24	11/04/20 07:45	1
-NEtFOSAA	82		- 150	11/02/20 19:24	11/04/20 07:45	1
M2-6:2 FTS	84		- 150	11/02/20 19:24	11/04/20 07:45	1
M2-8:2 FTS	83		- 150	11/02/20 19:24	11/04/20 07:45	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFSCW2-W ter-10302020

Lab Sample ID: 320-66212-8

Date Collected: 10/30/20 11:20

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.7	J	4.7	.3	ng/L		19:24	4/20 07:54	
Perfluoropentanoic acid (PFPeA)	1.4	J	.9	.46	ng/L		19:24	4/20 07:54	
Perfluorohexanoic acid (PFHxA)	1.1	J	.9	.54	ng/L		19:24	4/20 07:54	
Perfluoroheptanoic acid (PFHpA)	0.83	J	.9	.23	ng/L		19:24	4/20 07:54	
Perfluorooctanoic acid (PFOA)	1.4	J	.9	.80	ng/L		19:24	4/20 07:54	
Perfluorononanoic acid (PFNA)	0.34	J	.9	.25	ng/L		19:24	4/20 07:54	
Perfluorodecanoic acid (PFDA)	ND		.9	.29	ng/L		19:24	4/20 07:54	
Perfluoroundecanoic acid (PFUnA)	ND		.9	.0	ng/L		19:24	4/20 07:54	
Perfluorododecanoic acid (PFDoA)	ND		.9	.52	ng/L		19:24	4/20 07:54	
Perfluorotridecanoic acid (PFTriA)	ND		.9	.2	ng/L		19:24	4/20 07:54	
Perfluorotetradecanoic acid (PFTeA)	ND		.9	.69	ng/L		19:24	4/20 07:54	
Perfluorobutanesulfonic acid (PFBS)	0.72	J	.9	.19	ng/L		19:24	4/20 07:54	
Perfluorohexanesulfonic acid (PFHxS)	ND		.9	.53	ng/L		19:24	4/20 07:54	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.9	.18	ng/L		19:24	4/20 07:54	
Perfluorooctanesulfonic acid (PFOS)	0.95	J I	.9	.51	ng/L		19:24	4/20 07:54	
Perfluorodecanesulfonic acid (PFDS)	ND		.9	.30	ng/L		19:24	4/20 07:54	
Perfluorooctanesulfonamide (FOSA)	ND		.9	.92	ng/L		19:24	4/20 07:54	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	.1	ng/L		19:24	4/20 07:54	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	.2	ng/L		19:24	4/20 07:54	
:2 FTS	ND		4.7	.3	ng/L		19:24	4/20 07:54	
8:2 FTS	ND		.9	.43	ng/L		19:24	4/20 07:54	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	4		- 150	11/02/20 19:24	11/04/20 07:54	1
13C5 PFPeA	3		- 150	11/02/20 19:24	11/04/20 07:54	1
13C2 PFHxA	85		- 150	11/02/20 19:24	11/04/20 07:54	1
13C4 PFHpA	0		- 150	11/02/20 19:24	11/04/20 07:54	1
13C4 PFOA			- 150	11/02/20 19:24	11/04/20 07:54	1
13C5 PFNA			- 150	11/02/20 19:24	11/04/20 07:54	1
13C2 PFDA	1		- 150	11/02/20 19:24	11/04/20 07:54	1
13C2 PFUnA	3		- 150	11/02/20 19:24	11/04/20 07:54	1
13C2 PFDoA	75		- 150	11/02/20 19:24	11/04/20 07:54	1
13C2 PFTeDA			- 150	11/02/20 19:24	11/04/20 07:54	1
13C3 PFBS	78		- 150	11/02/20 19:24	11/04/20 07:54	1
18O2 PFHxS	89		- 150	11/02/20 19:24	11/04/20 07:54	1
13C4 PFOS	4		- 150	11/02/20 19:24	11/04/20 07:54	1
13C8 FOSA	100		- 150	11/02/20 19:24	11/04/20 07:54	1
d3-NMeFOSAA	87		- 150	11/02/20 19:24	11/04/20 07:54	1
-NEtFOSAA	88		- 150	11/02/20 19:24	11/04/20 07:54	1
M2-6:2 FTS			- 150	11/02/20 19:24	11/04/20 07:54	1
M2-8:2 FTS	4		- 150	11/02/20 19:24	11/04/20 07:54	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFSCW1-W ter-10302020

Lab Sample ID: 320-66212-9

Date Collected: 10/30/20 11:40

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.9	J	4.8	.3	ng/L		19:24	4/20 08:04	
Perfluoropentanoic acid (PFPeA)	1.9		.9	.47	ng/L		19:24	4/20 08:04	
Perfluorohexanoic acid (PFHxA)	1.4	J	.9	.56	ng/L		19:24	4/20 08:04	
Perfluoroheptanoic acid (PFHpA)	0.80	J	.9	.24	ng/L		19:24	4/20 08:04	
Perfluorooctanoic acid (PFOA)	1.8	J	.9	.82	ng/L		19:24	4/20 08:04	
Perfluorononanoic acid (PFNA)	0.35	J	.9	.26	ng/L		19:24	4/20 08:04	
Perfluorodecanoic acid (PFDA)	ND		.9	.30	ng/L		19:24	4/20 08:04	
Perfluoroundecanoic acid (PFUnA)	ND		.9	.1	ng/L		19:24	4/20 08:04	
Perfluorododecanoic acid (PFDoA)	ND		.9	.53	ng/L		19:24	4/20 08:04	
Perfluorotridecanoic acid (PFTriA)	ND		.9	.3	ng/L		19:24	4/20 08:04	
Perfluorotetradecanoic acid (PFTeA)	ND		.9	.70	ng/L		19:24	4/20 08:04	
Perfluorobutanesulfonic acid (PFBS)	1.8	J I	.9	.19	ng/L		19:24	4/20 08:04	
Perfluorohexanesulfonic acid (PFHxS)	ND		.9	.55	ng/L		19:24	4/20 08:04	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.9	.18	ng/L		19:24	4/20 08:04	
Perfluorooctanesulfonic acid (PFOS)	1.1	J	.9	.52	ng/L		19:24	4/20 08:04	
Perfluorodecanesulfonic acid (PFDS)	ND		.9	.31	ng/L		19:24	4/20 08:04	
Perfluorooctanesulfonamide (FOSA)	ND		.9	.94	ng/L		19:24	4/20 08:04	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	.2	ng/L		19:24	4/20 08:04	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	.3	ng/L		19:24	4/20 08:04	
:2 FTS	ND		4.8	.4	ng/L		19:24	4/20 08:04	
8:2 FTS	ND		.9	.44	ng/L		19:24	4/20 08:04	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			- 150	11/02/20 19:24	11/04/20 08:04	1
13C5 PFPeA			- 150	11/02/20 19:24	11/04/20 08:04	1
13C2 PFHxA	89		- 150	11/02/20 19:24	11/04/20 08:04	1
13C4 PFHpA	4		- 150	11/02/20 19:24	11/04/20 08:04	1
13C4 PFOA	105		- 150	11/02/20 19:24	11/04/20 08:04	1
13C5 PFNA	103		- 150	11/02/20 19:24	11/04/20 08:04	1
13C2 PFDA	100		- 150	11/02/20 19:24	11/04/20 08:04	1
13C2 PFUnA	101		- 150	11/02/20 19:24	11/04/20 08:04	1
13C2 PFDoA	75		- 150	11/02/20 19:24	11/04/20 08:04	1
13C2 PFTeDA			- 150	11/02/20 19:24	11/04/20 08:04	1
13C3 PFBS	76		- 150	11/02/20 19:24	11/04/20 08:04	1
18O2 PFHxS	4		- 150	11/02/20 19:24	11/04/20 08:04	1
13C4 PFOS	102		- 150	11/02/20 19:24	11/04/20 08:04	1
13C8 FOSA	106		- 150	11/02/20 19:24	11/04/20 08:04	1
d3-NMeFOSAA	89		- 150	11/02/20 19:24	11/04/20 08:04	1
-NEtFOSAA	87		- 150	11/02/20 19:24	11/04/20 08:04	1
M2-6:2 FTS	7		- 150	11/02/20 19:24	11/04/20 08:04	1
M2-8:2 FTS	100		- 150	11/02/20 19:24	11/04/20 08:04	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW1-W ter-10302020

Lab Sample ID: 320-66212-10

Date Collected: 10/30/20 12:25

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.7	J	4.6	.2	ng/L		19:25	4/20 08:13	
Perfluoropentanoic acid (PFPeA)	2.8		.8	.45	ng/L		19:25	4/20 08:13	
Perfluorohexanoic acid (PFHxA)	1.8		.8	.53	ng/L		19:25	4/20 08:13	
Perfluoroheptanoic acid (PFHpA)	1.2	J	.8	.23	ng/L		19:25	4/20 08:13	
Perfluorooctanoic acid (PFOA)	1.8		.8	.78	ng/L		19:25	4/20 08:13	
Perfluorononanoic acid (PFNA)	0.48	J	.8	.25	ng/L		19:25	4/20 08:13	
Perfluorodecanoic acid (PFDA)	ND		.8	.28	ng/L		19:25	4/20 08:13	
Perfluoroundecanoic acid (PFUnA)	ND		.8	.0	ng/L		19:25	4/20 08:13	
Perfluorododecanoic acid (PFDoA)	ND		.8	.51	ng/L		19:25	4/20 08:13	
Perfluorotridecanoic acid (PFTriA)	ND		.8	.2	ng/L		19:25	4/20 08:13	
Perfluorotetradecanoic acid (PFTeA)	ND		.8	.67	ng/L		19:25	4/20 08:13	
Perfluorobutanesulfonic acid (PFBS)	2.6		.8	.18	ng/L		19:25	4/20 08:13	
Perfluorohexanesulfonic acid (PFHxS)	0.97	J	.8	.52	ng/L		19:25	4/20 08:13	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.8	.17	ng/L		19:25	4/20 08:13	
Perfluorooctanesulfonic acid (PFOS)	2.9		.8	.50	ng/L		19:25	4/20 08:13	
Perfluorodecanesulfonic acid (PFDS)	ND		.8	.29	ng/L		19:25	4/20 08:13	
Perfluorooctanesulfonamide (FOSA)	ND		.8	.90	ng/L		19:25	4/20 08:13	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	.1	ng/L		19:25	4/20 08:13	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	.2	ng/L		19:25	4/20 08:13	
:2 FTS	ND		4.6	.3	ng/L		19:25	4/20 08:13	
8:2 FTS	ND		.8	.42	ng/L		19:25	4/20 08:13	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			- 150	11/02/20 19:25	11/04/20 08:13	1
13C5 PFPeA	3		- 150	11/02/20 19:25	11/04/20 08:13	1
13C2 PFHxA	89		- 150	11/02/20 19:25	11/04/20 08:13	1
13C4 PFHpA	3		- 150	11/02/20 19:25	11/04/20 08:13	1
13C4 PFOA	103		- 150	11/02/20 19:25	11/04/20 08:13	1
13C5 PFNA	100		- 150	11/02/20 19:25	11/04/20 08:13	1
13C2 PFDA	8		- 150	11/02/20 19:25	11/04/20 08:13	1
13C2 PFUnA	104		- 150	11/02/20 19:25	11/04/20 08:13	1
13C2 PFDoA	86		- 150	11/02/20 19:25	11/04/20 08:13	1
13C2 PFTeDA	71		- 150	11/02/20 19:25	11/04/20 08:13	1
13C3 PFBS	77		- 150	11/02/20 19:25	11/04/20 08:13	1
18O2 PFHxS	3		- 150	11/02/20 19:25	11/04/20 08:13	1
13C4 PFOS			- 150	11/02/20 19:25	11/04/20 08:13	1
13C8 FOSA	109		- 150	11/02/20 19:25	11/04/20 08:13	1
d3-NMeFOSAA	89		- 150	11/02/20 19:25	11/04/20 08:13	1
-NEtFOSAA	7		- 150	11/02/20 19:25	11/04/20 08:13	1
M2-6:2 FTS			- 150	11/02/20 19:25	11/04/20 08:13	1
M2-8:2 FTS			- 150	11/02/20 19:25	11/04/20 08:13	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFPCW3-W ter-10302020

Lab Sample ID: 320-66212-11

Date Collected: 10/30/20 13:00

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.1		4.9	.3	ng/L		19:25	4/20 08:22	
Perfluoropentanoic acid (PFPeA)	5.2		.9	.48	ng/L		19:25	4/20 08:22	
Perfluorohexanoic acid (PFHxA)	5.8		.9	.56	ng/L		19:25	4/20 08:22	
Perfluoroheptanoic acid (PFHpA)	2.3		.9	.24	ng/L		19:25	4/20 08:22	
Perfluorooctanoic acid (PFOA)	4.0		.9	.83	ng/L		19:25	4/20 08:22	
Perfluorononanoic acid (PFNA)	0.41 J		.9	.26	ng/L		19:25	4/20 08:22	
Perfluorodecanoic acid (PFDA)	0.35 J		.9	.30	ng/L		19:25	4/20 08:22	
Perfluoroundecanoic acid (PFUnA)	ND		.9	.1	ng/L		19:25	4/20 08:22	
Perfluorododecanoic acid (PFDoA)	ND		.9	.53	ng/L		19:25	4/20 08:22	
Perfluorotridecanoic acid (PFTriA)	ND		.9	.3	ng/L		19:25	4/20 08:22	
Perfluorotetradecanoic acid (PFTeA)	ND		.9	.71	ng/L		19:25	4/20 08:22	
Perfluorobutanesulfonic acid (PFBS)	2.3		.9	.19	ng/L		19:25	4/20 08:22	
Perfluorohexanesulfonic acid (PFHxS)	2.8		.9	.55	ng/L		19:25	4/20 08:22	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.9	.18	ng/L		19:25	4/20 08:22	
Perfluorooctanesulfonic acid (PFOS)	4.5		.9	.52	ng/L		19:25	4/20 08:22	
Perfluorodecanesulfonic acid (PFDS)	ND		.9	.31	ng/L		19:25	4/20 08:22	
Perfluorooctanesulfonamide (FOSA)	ND		.9	.95	ng/L		19:25	4/20 08:22	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.9	.2	ng/L		19:25	4/20 08:22	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.9	.3	ng/L		19:25	4/20 08:22	
:2 FTS	ND		4.9	.4	ng/L		19:25	4/20 08:22	
8:2 FTS	ND		.9	.45	ng/L		19:25	4/20 08:22	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	7		- 150	11/02/20 19:25	11/04/20 08:22	1
13C5 PFPeA	71		- 150	11/02/20 19:25	11/04/20 08:22	1
13C2 PFHxA	89		- 150	11/02/20 19:25	11/04/20 08:22	1
13C4 PFHpA	3		- 150	11/02/20 19:25	11/04/20 08:22	1
13C4 PFOA			- 150	11/02/20 19:25	11/04/20 08:22	1
13C5 PFNA			- 150	11/02/20 19:25	11/04/20 08:22	1
13C2 PFDA			- 150	11/02/20 19:25	11/04/20 08:22	1
13C2 PFUnA	100		- 150	11/02/20 19:25	11/04/20 08:22	1
13C2 PFDoA	4		- 150	11/02/20 19:25	11/04/20 08:22	1
13C2 PFTeDA	70		- 150	11/02/20 19:25	11/04/20 08:22	1
13C3 PFBS	83		- 150	11/02/20 19:25	11/04/20 08:22	1
18O2 PFHxS			- 150	11/02/20 19:25	11/04/20 08:22	1
13C4 PFOS	8		- 150	11/02/20 19:25	11/04/20 08:22	1
13C8 FOSA	106		- 150	11/02/20 19:25	11/04/20 08:22	1
d3-NMeFOSAA			- 150	11/02/20 19:25	11/04/20 08:22	1
-NEtFOSAA	1		- 150	11/02/20 19:25	11/04/20 08:22	1
M2-6:2 FTS	3		- 150	11/02/20 19:25	11/04/20 08:22	1
M2-8:2 FTS	88		- 150	11/02/20 19:25	11/04/20 08:22	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFPCW4-W ter-10302020

Lab Sample ID: 320-66212-12

Date Collected: 10/30/20 13:30

Matrix: W ter

Date Received: 10/31/20 09:45

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.5		4.6	.2	ng/L		19:25	4/20 08:32	
Perfluoropentanoic acid (PFPeA)	5.1		.9	.45	ng/L		19:25	4/20 08:32	
Perfluorohexanoic acid (PFHxA)	4.7		.9	.54	ng/L		19:25	4/20 08:32	
Perfluoroheptanoic acid (PFHpA)	2.4		.9	.23	ng/L		19:25	4/20 08:32	
Perfluorooctanoic acid (PFOA)	3.4		.9	.79	ng/L		19:25	4/20 08:32	
Perfluorononanoic acid (PFNA)	0.39 J		.9	.25	ng/L		19:25	4/20 08:32	
Perfluorodecanoic acid (PFDA)	0.35 J		.9	.29	ng/L		19:25	4/20 08:32	
Perfluoroundecanoic acid (PFUnA)	ND		.9	.0	ng/L		19:25	4/20 08:32	
Perfluorododecanoic acid (PFDoA)	ND		.9	.51	ng/L		19:25	4/20 08:32	
Perfluorotridecanoic acid (PFTriA)	ND		.9	.2	ng/L		19:25	4/20 08:32	
Perfluorotetradecanoic acid (PFTeA)	ND		.9	.68	ng/L		19:25	4/20 08:32	
Perfluorobutanesulfonic acid (PFBS)	2.0		.9	.19	ng/L		19:25	4/20 08:32	
Perfluorohexanesulfonic acid (PFHxS)	2.5		.9	.53	ng/L		19:25	4/20 08:32	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.9	.18	ng/L		19:25	4/20 08:32	
Perfluorooctanesulfonic acid (PFOS)	4.5		.9	.50	ng/L		19:25	4/20 08:32	
Perfluorodecanesulfonic acid (PFDS)	ND		.9	.30	ng/L		19:25	4/20 08:32	
Perfluorooctanesulfonamide (FOSA)	ND		.9	.91	ng/L		19:25	4/20 08:32	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	.1	ng/L		19:25	4/20 08:32	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	.2	ng/L		19:25	4/20 08:32	
:2 FTS	ND		4.6	.3	ng/L		19:25	4/20 08:32	
8:2 FTS	ND		.9	.43	ng/L		19:25	4/20 08:32	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	1		- 150	11/02/20 19:25	11/04/20 08:32	1
13C5 PFPeA	101		- 150	11/02/20 19:25	11/04/20 08:32	1
13C2 PFHxA	120		- 150	11/02/20 19:25	11/04/20 08:32	1
13C4 PFHpA	127		- 150	11/02/20 19:25	11/04/20 08:32	1
13C4 PFOA	134		- 150	11/02/20 19:25	11/04/20 08:32	1
13C5 PFNA	144		- 150	11/02/20 19:25	11/04/20 08:32	1
13C2 PFDA	133		- 150	11/02/20 19:25	11/04/20 08:32	1
13C2 PFUnA	133		- 150	11/02/20 19:25	11/04/20 08:32	1
13C2 PFDoA	110		- 150	11/02/20 19:25	11/04/20 08:32	1
13C2 PFTeDA			- 150	11/02/20 19:25	11/04/20 08:32	1
13C3 PFBS	108		- 150	11/02/20 19:25	11/04/20 08:32	1
18O2 PFHxS	125		- 150	11/02/20 19:25	11/04/20 08:32	1
13C4 PFOS	123		- 150	11/02/20 19:25	11/04/20 08:32	1
13C8 FOSA	140		- 150	11/02/20 19:25	11/04/20 08:32	1
d3-NMeFOSAA	124		- 150	11/02/20 19:25	11/04/20 08:32	1
-NEtFOSAA	122		- 150	11/02/20 19:25	11/04/20 08:32	1
M2-6:2 FTS	134		- 150	11/02/20 19:25	11/04/20 08:32	1
M2-8:2 FTS	134		- 150	11/02/20 19:25	11/04/20 08:32	1

Eurofins TestAmerica, Sacramento

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-66212-1	HFPCW2-Water-10302020	9	75	92	96	4	5		3
320-66212-2	HFV2-Water-10302020	59	9	98					
320-66212-2 MS	HFV2-Water-10302020	58	8	89	93			8	
320-66212-2 MSD	HFV2-Water-10302020	54	3	88	92	96	3	97	7
320-66212-3	HFV3-Water-10302020	59	9	93		7	8		96
320-66212-4	HFV4-Water-10302020	54	3	87	91	98	95	95	95
320-66212-5	HFV DUP 10302020	57	4	89	94	3	5		
320-66212-6	HFV-Equipment Blank-10302020	98	3	3	8	9	7	8	4
320-66212-7	HFV-Field Blank-10302020	89	94	88	94		91	87	91
320-66212-8	HFSCW2-Water-10302020	54	3	85	90	95	95	91	93
320-66212-9	HFSCW1-Water-10302020	55		89	94	5	3		
320-66212-10	HFV1-Water-10302020	55	3	89	93	3		98	4
320-66212-1	HFPCW3-Water-10302020	7	71	89	93	96	96	99	
320-66212-12	HFPCW4-Water-10302020	91			7	34	44	33	33
LCS 320-427889/2-A	Lab Control Sample	89	95	89	92	97	89	94	92
MB 320-427889/1-A	Method Blank	88	90	89	90	94	91	87	92
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFO (25-150)	d5NEFO (25-150)
320-66212-1	HFPCW2-Water-10302020	87	5	87	98		4		97
320-66212-2	HFV2-Water-10302020	84	7	83	97	4			95
320-66212-2 MS	HFV2-Water-10302020	80	76	80	99				96
320-66212-2 MSD	HFV2-Water-10302020	89	72	79	92			98	99
320-66212-3	HFV3-Water-10302020	79	5	83		3	4	93	95
320-66212-4	HFV4-Water-10302020	89	8	76	90	96		95	95
320-66212-5	HFV DUP 10302020	86	9	74	96	97	8	93	94
320-66212-6	HFV-Equipment Blank-10302020	83			8	8	4	96	97
320-66212-7	HFV-Field Blank-10302020	77	92	88	94	98	96	80	82
320-66212-8	HFSCW2-Water-10302020	75	59	78	89	94		87	88
320-66212-9	HFSCW1-Water-10302020	75	9	76	94			89	87
320-66212-10	HFV1-Water-10302020	86	71	77	93	99	9	89	97
320-66212-1	HFPCW3-Water-10302020	94	70	83	96	98		92	91
320-66212-12	HFPCW4-Water-10302020		95	8	5	3	40	4	
LCS 320-427889/2-A	Lab Control Sample	82	85	89	94	95	94	95	90
MB 320-427889/1-A	Method Blank	87	86	85	92	95	96	91	93
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
320-66212-1	HFPCW2-Water-10302020	4	8						
320-66212-2	HFV2-Water-10302020	3	5						
320-66212-2 MS	HFV2-Water-10302020								
320-66212-2 MSD	HFV2-Water-10302020	98	96						
320-66212-3	HFV3-Water-10302020		9						
320-66212-4	HFV4-Water-10302020	99	99						
320-66212-5	HFV DUP 10302020	96							
320-66212-6	HFV-Equipment Blank-10302020	98							
320-66212-7	HFV-Field Blank-10302020	84	83						

Eurofins TestAmerica, Sacramento

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 320-66212-1

Project/Site: Norlite - Cohoes #401041

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)	
		M262FTS (25-150)	M282FTS (25-150)
320-66212-8	HFSCW2-Water-10302020	95	94
320-66212-9	HFSCW1-Water-10302020	97	
320-66212-10	HFV1-Water-10302020	92	95
320-66212-1	HFPCW3-Water-10302020	93	88
320-66212-12	HFPCW4-Water-10302020	34	34
LCS 320-427889/2-A	Lab Control Sample	84	86
MB 320-427889/1-A	Method Blank	89	92

rrrogate Legend

PFBA = 13C4 PFBA
 PFPeA = 13C5 PFPeA
 PFHxA = 13C2 PFHxA
 C4PFHA = 13C4 PFHpA
 PFOA = 13C4 PFOA
 PFNA = 13C5 PFNA
 PFDA = 13C2 PFDA
 PFUnA = 13C2 PFUnA
 PFDaA = 13C2 PFDaA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 PFHxS = 18O2 PFHxS
 PFOS = 13C4 PFOS
 PFOSA = 13C8 FOSA
 d3NMFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 M262FTS = M2-6:2 FTS
 M282FTS = M2-8:2 FTS

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-427889/1-A
Matrix: Water
Analysis Batch: 428440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 427889

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Per8gorobgtanoic aciL 9P75f u	ND		d.0	.4	n(/F		1/02/20 1A:24	1/04/20 0d:d2	
Per8goro) entanoic aciL 9P7Pef u	ND		.0	.4A	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8goroheTanoic aciL 9P7p Tf u	ND		.0	.dU	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorohe) tanoic aciL 9P7p) f u	ND		.0	.2d	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorooctanoic aciL 9P7Hf u	ND		.0	.U d	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorononanoic aciL 9P7Nf u	ND		.0	.2m	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8goroLecanoic aciL 9P7Df u	ND		.0	.31	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorognLecanoic aciL 9P7Onf u	ND		.0	.1	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8goroLoLecanoic aciL 9P7Dof u	ND		.0	.dd	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorotriLecanoic aciL 9P7yrf u	ND		.0	.3	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorotetraLecanoic aciL 9P7yef u	ND		.0	0.m8	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorobgtanesgl8nic aciL 9P75Su	ND		.0	.20	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8goroheTanesgl8nic aciL 9P7p TSu	ND		.0	.dm	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorohe) tanesgl8nic f ciL 9P7p) Su	ND		.0	.1A	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorooctanesgl8nic aciL 9P7HSu	ND		.0	.d4	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8goroLecanesgl8nic aciL 9P7DSu	ND		.0	.32	n(/F		1/02/20 1A:24	4/20 0d:d2	
Per8gorooctanesgl8naMiLe 9Hsf u	ND		.0	0.AU	n(/F		1/02/20 1A:24	4/20 0d:d2	
N-Meth, l) er8gorooctanesgl8naMiLoa cetic aciL 9NB e7HSf f u	ND		d.0	.2	n(/F		1/02/20 1A:24	4/20 0d:d2	
N-eth, l) er8gorooctanesgl8naMiLoac etic aciL 9NEt7HSf f u	ND		d.0	.3	n(/F		1/02/20 1A:24	4/20 0d:d2	
6:2 7yS	ND		d.0	.d	n(/F		1/02/20 1A:24	4/20 0d:d2	
U: 7yS	ND		.0	.46	n(/F		1/02/20 1A:24	4/20 0d:d2	

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA			12-	110 900- 1: /94	110 400- - /29	1
13C2 PFPeA	: -		12-	110 900- 1: /94	110 400- - /29	1
13C9 PF7H	:		12-	110 900- 1: /94	110 400- - /29	1
13C4 PF7x	: -		12-	110 900- 1: /94	110 400- - /29	1
13C4 PFp	: 4		12-	110 900- 1: /94	110 400- - /29	1
13C2 PFO	: 1		12-	110 900- 1: /94	110 400- - /29	1
13C9 PFDA	N		12-	110 900- 1: /94	110 400- - /29	1
13C9 PFUnA	: 9		12-	110 900- 1: /94	110 400- - /29	1
13C9 PFDoA	N		12-	110 900- 1: /94	110 400- - /29	1
13C9 PFTeDA	8		12-	110 900- 1: /94	110 400- - /29	1
13C3 PFBS			12-	110 900- 1: /94	110 400- - /29	1
16p 9 PF7HS	: 9		12-	110 900- 1: /94	110 400- - /29	1
13C4 PFp S	: 2		12-	110 900- 1: /94	110 400- - /29	1
13C6 Fp SA	: 8		12-	110 900- 1: /94	110 400- - /29	1
d35OMeFp SAA	: 1		12-	110 900- 1: /94	110 400- - /29	1
OEtFp SAA	: 3		12-	110 900- 1: /94	110 400- - /29	1
M95/9 FTS	:		12-	110 900- 1: /94	110 400- - /29	1
M95/9 FTS	: 9		12-	110 900- 1: /94	110 400- - /29	1

Egro8ns yestf MericaxSacraMento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

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

Lab Sample ID: LCS 320-427889/2-A

Matrix: Water

Analysis Batch: 428440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 427889

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Per8gorobgtanoic aciL 9P75f u	40.0	43.m		n(/F		A	m	36
Per8goro) entanoic aciL 9P7Pef u	40.0	3m2		n(/F		A3	m	31
Per8goroheTanoic aciL 9P7p Tf u	40.0	4d.4		n(/F		3	m8	33
Per8gorohe) tanoic aciL 9P7p) f u	40.0	43.0		n(/F		m	m	32
Per8gorooctanoic aciL 9P7Hf u	40.0	3U.3		n(/F		A	m	30
Per8gorononanoic aciL 9P7Nf u	40.0	4m0		n(/F		m	m	3d
Per8goroLecanoic aciL 9P7Df u	40.0	3A.6		n(/F		AA	m	36
Per8gorognLecanoic aciL 9P7Onf u	40.0	3A.m		n(/F		AA	U	U
Per8goroLoLecanoic aciL 9P7Dof u	40.0	43.A		n(/F			m	31
Per8gorotriLecanoic aciL 9P7yrf u	40.0	44.6		n(/F			m	31
Per8gorotetraLecanoic aciL 9P7yef u	40.0	43.A		n(/F			m	30
Per8gorobgtanesgl8nic aciL 9P75Su	3d.4	3U.0		n(/F		m	m	m
Per8goroheTanesgl8nic aciL 9P7p TSu	36.4	36.1		n(/F		AA	dA	A
Per8gorohe) tanesgl8nic f ciL 9P7p) Su	3U.1	3AA		n(/F		d	m	36
Per8gorooctanesgl8nic aciL 9P7HSu	3m1	3U.6		n(/F		4	m	30
Per8goroLecanesgl8nic aciL 9P7DSu	3U.6	3U.6		n(/F			m	31
Per8gorooctanesgl8naMiLe 9P7HSf u	40.0	44.0		n(/F			m8	33
N-Meth, l) er8gorooctanesgl8na MiLoacetic aciL 9NB e7HSf f u	40.0	3A.3		n(/F		AU	m	36
N-eth, l) er8gorooctanesgl8naMi Loacetic aciL 9NEt7HSf f u	40.0	42.4		n(/F			m	36
6:2 7yS	3mA	3mA		n(/F			dA	md
U: 7yS	3U.3	4 .3		n(F		d	m	3d

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	:		12-
13C2 PFPeA	:2		12-
13C9 PF7H	:		12-
13C4 PF7x	:9		12-
13C4 PFp	:N		12-
13C2 PFO	:		12-
13C9 PFDA	:4		12-
13C9 PFUnA	:9		12-
13C9 PFDoA			12-
13C9 PFTeDA			12-
13C3 PFBS	:		12-
16p 9 PF7HS	:4		12-
13C4 PFp S	:2		12-
13C6 Fp SA	:4		12-
d35OMeFp SAA	:2		12-
OEtfp SAA	:-		12-

Egro8ns yestf MericaxSacraMento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

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

Lab Sample ID: LCS 320-427889/2-A
Matrix: Water
Analysis Batch: 428440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427889

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M95/9 FTS	4		12-
M95/9 FTS	8		12-

Lab Sample ID: 320-66212-2 MS
Matrix: Water
Analysis Batch: 428440

Client Sample ID: HFW2-Water-10302020
Prep Type: Total/NA
Prep Batch: 427889

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	Limits
Per8gorobgtanoic aciL 9P75 f u	4.3	J	3U.0	40.2		n(/F		A4	m 36
Per8goro) entanoic aciL 9P7Pef u	3.4		3U.0	3U.U		n(/F		A3	m 31
Per8goroheTanoic aciL 9P7p Tf u	.2		3U.0	43.m		n(/F		A	m8 33
Per8gorohe) tanoic aciL 9P7p) f u	.3	J	3U.0	43.6		n(/F			m 32
Per8gorooctanoic aciL 9P7Hf u	.A		3U.0	41.4		n(/F		4	m 30
Per8gorononanoic aciL 9P7Nf u	.31	J	3U.0	3A.U		n(/F		4	mrd 3d
Per8goroLecanoic aciL 9P7Df u	ND		3U.0	36.A		n(/F		Am	m 36
Per8gorognLecanoic aciL 9P7Onf u	ND		3U.0	3U.3		n(/F			U U
Per8goroLoLecanoic aciL 9P7Dof u	ND		3U.0	46.d		n(/F			m 31
Per8gorotriLecanoic aciL 9P7yrf u	ND		3U.0	41.1		n(/F		U	m 31
Per8gorotetraLecanoic aciL 9P7yef u	ND		3U.0	42.m		n(/F			m 30
Per8gorobgtanesgl8nic aciL 9P75Su	.m		33.6	40.A		n(/F		4	m m
Per8goroheTanesgl8nic aciL 9P7p TSu	.0	J	34.6	33.4		n(/F		A4	dA A
Per8gorohe) tanesgl8nic f ciL 9P7p) Su	ND		36.2	3U.d		n(/F			m 36
Per8gorooctanesgl8nic aciL 9P7HSu	.U	J	3d.3	41.m		n(/F		3	m 30
Per8goroLecanesgl8nic aciL 9P7DSu	ND		36.6	33.m		n(/F		A	m 31
Per8gorooctanesgl8naMiLe 9P7HSf u	ND		3U.0	42.d		n(/F			m8 33
N-Meth, l) er8gorooctanesgl8na MiLoacetic aciL 9NB e7HSf f u	ND		3U.0	36.6		n(/F		A	m 36
N-eth, l) er8gorooctanesgl8naMi Loacetic aciL 9NEt7HSf f u	ND		3U.0	42.4		n(/F			m 36
6:2 7yS	ND		36.0	36.6		n(/F			dA md
U:2 7yS	ND		36.4	3A.1		n(/F		m	mrd 3d

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA			12-
13C2 PFPeA	86		12-
13C9 PF7H	:		12-
13C4 PF7x	: 3		12-
13C4 PFp	1--		12-
13C2 PFO	1-		12-
13C9 PFDA	1-		12-
13C9 PFUnA	111		12-
13C9 PFDoA	-		12-

Egro8ns yestf MericaxSacraMento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

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

Lab Sample ID: 320-66212-2 MS

Matrix: Water

Analysis Batch: 428440

Client Sample ID: HFW2-Water-10302020

Prep Type: Total/NA

Prep Batch: 427889

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C9 PFTeDA	18		12-
13C3 PFBS	-		12-
16p 9 PF7 HS	11		12-
13C4 PFp S	1-		12-
13C6 Fp SA	1- 8		12-
d3DMeFp SAA	1-		12-
OEtfp SAA	1 8		12-
M95/9 FTS	1- 8		12-
M95/9 FTS	1- 8		12-

Lab Sample ID: 320-66212-2 MSD

Matrix: Water

Analysis Batch: 428440

Client Sample ID: HFW2-Water-10302020

Prep Type: Total/NA

Prep Batch: 427889

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	PD	PD Limit
Per8gorobgtanoic aciL 975f u	4.3	J	3mU	3Am		n(/F		A4	m 36		3
Per8goro) entanoic aciL 97Pef u	3.4		3mU	3UA		n(/F		A4	m 31		30
Per8goroheTanoic aciL 97p Tf u	.2		3mU	3AU		n(/F		AA	m8 33		30
Per8gorohe) tanoic aciL 97p) f u	.3	J	3mU	43.1		n(/F			m 32		30
Per8goroOctanoic aciL 97Hf u	.A		3mU	3A0		n(/F		AU	m 30		30
Per8gorononanoic aciL 97Nf u	.31	J	3mU	3AU		n(/F		4	md 3d		30
Per8goroLecanoic aciL 97Df u	ND		3mU	43.d		n(/F		d	m 36		30
Per8gorognLecanoic aciL 97Onf u	ND		3mU	40.4		n(/F		m	U U	d	30
Per8goroLoLecanoic aciL 97Dof u	ND		3mU	41.0		n(/F		U	m 31		30
Per8gorotriLecanoic aciL 97yrf u	ND		3mU	3d.4		n(/F		A4	m 31	d	30
Per8gorotetraLecanoic aciL 97yef u	ND		3mU	3d.d		n(/F		A4	m 30	U	30
Per8gorobgtanesgl8nic aciL 975Su	.m		33.4	42.1		n(/F		U	m m	3	30
Per8goroheTanesgl8nic aciL 97p TSu	.0	J	34.4	34.3		n(/F		Am	dA A	3	3
Per8gorohe) tanesgl8nic f ciL 97p) Su	ND		36.0	36.6		n(/F			m 36	d	30
Per8goroOctanesgl8nic aciL 97HSu	.U	J	3d.1	3A.6		n(/F		U	m 30	d	30
Per8goroLecanesgl8nic aciL 97DSu	ND		36.d	36.U		n(/F			m 31	A	30
Per8goroOctanesgl8naMiLe 97HSf u	ND		3mU	41.4		n(/F		A	m8 33	3	30
N-Meth, l) er8goroOctanesgl8na MiLoacetic aciL 9NB e7HSf f u	ND		3mU	40.3		n(/F		m	m 36		30
N-eth, l) er8goroOctanesgl8naMi Loacetic aciL 9NEt7HSf f u	ND		3mU	40.6		n(/F		m	m 36	d	30
6:2 7yS	ND		3d.A	36.3		n(/F			dA md1		3
U:2 7yS	ND		36.2	3A.4		n(/F		A	md 3d		30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	4		12-
13C2 PFPeA	83		12-

Egro8ns yestf MericaxSacraMento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

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

Lab Sample ID: 320-66212-2 MSD

Matrix: Water

Analysis Batch: 428440

Client Sample ID: HFW2-Water-10302020

Prep Type: Total/NA

Prep Batch: 427889

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C9 PF7H			12-
13C4 PF7x	:9		12-
13C4 PFp	:8		12-
13C2 PFO	1-3		12-
13C9 PFDA	:N		12-
13C9 PFUnA	1-N		12-
13C9 PFDoA	:		12-
13C9 PFTeDA	N9		12-
13C3 PFBS	N		12-
16p9 PF7HS	:9		12-
13C4 PFpS	1--		12-
13C6 FpSA	1-8		12-
d35OMeFpSAA	:6		12-
OEtFpSAA	::		12-
M95/9 FTS	:6		12-
M95/9 FTS	:8		12-

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

LCMS

Prep Batch: 427889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66212-1	HFPCW2-Water-10302020	Total/NA	Water	3535	
320-66212-2	HFV2-Water-10302020	Total/NA	Water	3535	
320-66212-3	HFV3-Water-10302020	Total/NA	Water	3535	
320-66212-4	HFV4-Water-10302020	Total/NA	Water	3535	
320-66212-5	HFV DUP 10302020	Total/NA	Water	3535	
320-66212-6	HFV-Equipment Blank-10302020	Total/NA	Water	3535	
320-66212-7	HFV-Field Blank-10302020	Total/NA	Water	3535	
320-66212-8	HFSCW2-Water-10302020	Total/NA	Water	3535	
320-66212-9	HFSCW1-Water-10302020	Total/NA	Water	3535	
320-66212-10	HFV1-Water-10302020	Total/NA	Water	3535	
320-66212-1	HFPCW3-Water-10302020	Total/NA	Water	3535	
320-66212-12	HFPCW4-Water-10302020	Total/NA	Water	3535	
MB 320-427889/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-427889/2-A	Lab Control Sample	Total/NA	Water	3535	
320-66212-2 MS	HFV2-Water-10302020	Total/NA	Water	3535	
320-66212-2 MSD	HFV2-Water-10302020	Total/NA	Water	3535	

Analysis Batch: 428440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66212-1	HFPCW2-Water-10302020	Total/NA	Water	537 (modified)	427889
320-66212-2	HFV2-Water-10302020	Total/NA	Water	537 (modified)	427889
320-66212-3	HFV3-Water-10302020	Total/NA	Water	537 (modified)	427889
320-66212-4	HFV4-Water-10302020	Total/NA	Water	537 (modified)	427889
320-66212-5	HFV DUP 10302020	Total/NA	Water	537 (modified)	427889
320-66212-6	HFV-Equipment Blank-10302020	Total/NA	Water	537 (modified)	427889
320-66212-7	HFV-Field Blank-10302020	Total/NA	Water	537 (modified)	427889
320-66212-8	HFSCW2-Water-10302020	Total/NA	Water	537 (modified)	427889
320-66212-9	HFSCW1-Water-10302020	Total/NA	Water	537 (modified)	427889
320-66212-10	HFV1-Water-10302020	Total/NA	Water	537 (modified)	427889
320-66212-1	HFPCW3-Water-10302020	Total/NA	Water	537 (modified)	427889
320-66212-12	HFPCW4-Water-10302020	Total/NA	Water	537 (modified)	427889
MB 320-427889/1-A	Method Blank	Total/NA	Water	537 (modified)	427889
LCS 320-427889/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	427889
320-66212-2 MS	HFV2-Water-10302020	Total/NA	Water	537 (modified)	427889
320-66212-2 MSD	HFV2-Water-10302020	Total/NA	Water	537 (modified)	427889

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFPCW2-Water-10302020

Lab Sample ID: 320-66212-1

Date Collected: 10/30/20 09:45

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			261.5 mL	10.00 mL	427889	11/02/20 19:24	VP	TAL SAC
T tal/NA	Analysis	537 (modified)		1			428440	11/04/20 06:11	K1S	TAL SAC

Client Sample ID: HFW2-Water-10302020

Lab Sample ID: 320-66212-2

Date Collected: 10/30/20 11:30

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			266.3 mL	10.00 mL	427889	11/02/20 19:24	VP	TAL SAC
T tal/NA	Analysis	537 (modified)		1			428440	11/04/20 06:20	K1S	TAL SAC

Client Sample ID: HFW3-Water-10302020

Lab Sample ID: 320-66212-3

Date Collected: 10/30/20 12:40

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			257.2 mL	10.00 mL	427889	11/02/20 19:24	VP	TAL SAC
T tal/NA	Analysis	537 (modified)		1			428440	11/04/20 06:48	K1S	TAL SAC

Client Sample ID: HFW4-Water-10302020

Lab Sample ID: 320-66212-4

Date Collected: 10/30/20 13:05

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			270.3 mL	10.00 mL	427889	11/02/20 19:24	VP	TAL SAC
T tal/NA	Analysis	537 (modified)		1			428440	11/04/20 06:58	K1S	TAL SAC

Client Sample ID: HFW DUP 10302020

Lab Sample ID: 320-66212-5

Date Collected: 10/30/20 00:00

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			260.5 mL	10.00 mL	427889	11/02/20 19:24	VP	TAL SAC
T tal/NA	Analysis	537 (modified)		1			428440	11/04/20 07:07	K1S	TAL SAC

Client Sample ID: HFW-Equipment Blank-10302020

Lab Sample ID: 320-66212-6

Date Collected: 10/30/20 13:40

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			265.9 mL	10.00 mL	427889	11/02/20 19:24	VP	TAL SAC
T tal/NA	Analysis	537 (modified)		1			428440	11/04/20 07:17	K1S	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Client Sample ID: HFW-Field Blank-10302020

Lab Sample ID: 320-66212-7

Date Collected: 10/30/20 13:45

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			273.3 mL	10.00 mL	427889	11/02/20 19:24	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			428440	11/04/20 07:45	K1S	TAL SAC

Client Sample ID: HFSCW2-Water-10302020

Lab Sample ID: 320-66212-8

Date Collected: 10/30/20 11:20

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			266.4 mL	10.00 mL	427889	11/02/20 19:24	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			428440	11/04/20 07:54	K1S	TAL SAC

Client Sample ID: HFSCW1-Water-10302020

Lab Sample ID: 320-66212-9

Date Collected: 10/30/20 11:40

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			259.6 mL	10.00 mL	427889	11/02/20 19:24	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			428440	11/04/20 08:04	K1S	TAL SAC

Client Sample ID: HFW1-Water-10302020

Lab Sample ID: 320-66212-10

Date Collected: 10/30/20 12:25

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			272.1 mL	10.00 mL	427889	11/02/20 19:25	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			428440	11/04/20 08:13	K1S	TAL SAC

Client Sample ID: HFPCW3-Water-10302020

Lab Sample ID: 320-66212-11

Date Collected: 10/30/20 13:00

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			257.3 mL	10.00 mL	427889	11/02/20 19:25	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			428440	11/04/20 08:22	K1S	TAL SAC

Client Sample ID: HFPCW4-Water-10302020

Lab Sample ID: 320-66212-12

Date Collected: 10/30/20 13:30

Matrix: Water

Date Received: 10/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			269.8 mL	10.00 mL	427889	11/02/20 19:25	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			428440	11/04/20 08:32	K1S	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Eurofins TestAmerica, Sacramento

Accreditation/Certification Summary

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
ew k	ELAP	11666	04-01-21

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	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	-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 (PFDoA)
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 (FOSA)
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 (PFT iA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

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 SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66212-1

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-66212-1	HFPCW2-Water-10302020	Water	30/20 09:45	10/31/20 09:45	
320-66212-2	HFW2-Water-10302020	Water	30/20 1 :30	31/20 09:45	
320-66212-3	HFW3-Water-10302020	Water	30/20 12:40	31/20 09:45	
320-66212-4	HFW4-Water-10302020	Water	30/20 13:05	31/20 09:45	
320-66212-5	HFW DUP 10302020	Water	30/20 00:00	31/20 09:45	
320-66212-6	HFW-Equipment Blank-10302020	Water	30/20 13:40	31 0 09:45	
320-66212-7	HFW-Field Blank-10302020	Water	30/20 13:45	31/20 9:45	
320-66212-8	HFSCW2-Water-10302020	Water	30/20 1 :20	10/31/20 09:45	
320-66212-9	HFSCW1-Water-10302020	Water	30/20 1 :40	10/31/20 09:45	
320-66212-10	HFW1-Water-10302020	Water	30/20 12:25	10/31/20 09:45	
320-66212-1	HFPCW3-Water-10302020	Water	30/20 13:00	10/31/20 09:45	
320-66212-12	HFPCW4-Water-10302020	Water	30/20 13:30	10/31/20 09:45	

Client Information		Sampler: SM		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 480-150122-33365.2			
Client Contact: Lynn Winterberger		Phone:		E-Mail: Judy.Stone@Eurofinset.com				Page: 2 of 2			
Company: New York State D.E.C.								Job #:			
Address: 625 Broadway Division of Environmental Remediation		Due Date Requested:		Analysis Requested  320-66212 Chain of Custody		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)		Other:			
City: Albany		TAT Requested (days): Standard									
State, Zip: NY, 12233-7014											
Phone: 518-402-9267(Tel)		PO #: Call Out DMM R4 - 401041									
Email: lynn.winterberger@dec.ny.gov		WO #:									
Project Name: Norlite - Cohoes #401041		Project #: 48022694									
Site: 		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)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:	
HFPCW2 - Water - 10/30/2020		10/30/2020	9:45am	G	Water		X		2		
HF W2 - Water - 10/30/2020		10/30/2020	11:30am	G	Water	X	X		6	ms / MSD	
HF W3 - Water - 10/30/2020		10/30/2020	12:40pm	G	Water		X		2		
HF W4 - Water - 10/30/2020		10/30/2020	1:05pm	G	Water		X		2		
DUP - HF W DUP 10/30/2020		10/30/2020		G	Water		X		2		
HF W - Equipment Blank - 10/30/2020		10/30/2020	1:40pm	G	Water		X		2		
HF W - Field Blank - 10/30/2020		10/30/2020	1:45pm	G	Water		X		2		
					Water						
					Water						
					Water						
					Water						
					Water						
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
						☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)		NYS DEC cat. B				Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: SM		Date/Time: 10/30/20 14:20		Company: NYSDEC		Received by: Karl Zechin		Date/Time: 10/30/20 1420		Company: Cropri	
Relinquished by: Karl Zechin		Date/Time: 10/30/20 1700		Company: Cropri		Received by: Erin		Date/Time: 10/31/20 945		Company: Erin	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact:		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:					
☒ Yes ☐ No		1478521 / 1478520				0.2/0.7 0.0/0.6					

ms/msd ID HF W2 - 10/30/2020 ST 10/31/20

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 320-66212-1

Login Number: 66212

List Source: Eurofins T stAmerica, Sacramento

List Number: 1

Creator: Oropeza, Salvador

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	1478521/1478520
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.	False	: IDs on containers do not match the COC. Logged in per COC.
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	/A	
There is sufficient vol. for all requested analyses, incl. any equested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-66472-1

Client Project/Site: Norlite - Cohoes #401041
Revision: 1

For:

New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Lynn M Winterberger



Authorized for release by:
1/18/2021 11:12:47 AM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
Isotope Dilution Summary	18
QC Sample Results	20
QC Association Summary	25
Lab Chronicle	26
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	32

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

ID: 320-66472-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Narrative 320-66472-1

Revision (1)

The report has been revised at the request of the client on 1/15/21 to change the date for the Trip Blank (320-66472-11) to 11/6/20 like the field samples.

Receipt

The samples were received on 11/7/2020 9:25 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

Receipt Exceptions

Trip Blank 11062020 (320-66472-11) COC does not indicate date on COC for sample 11. Date on container was 9-3-2020. Sample was logged in and labeled according to date on sample container.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): LF Water 2 11062020 (320-66472-1), LF Water 3 11062020 (320-66472-2), LF Water 6 11062020 (320-66472-3), LF Water 6 11062020 (320-66472-3[MS]), LF Water 6 11062020 (320-66472-3[MSD]), LF Water 4 11062020 (320-66472-4), LF Water 5 11062020 (320-66472-5), LF Water 7 11062020 (320-66472-6), LF Water 8 11062020 (320-66472-7), DUP 11062020 (320-66472-8) and Trip Blank 11062020 (320-66472-11).

Samples 1-3, 5 & 7, there are two dashes on sample containers after LF and Water #. For examples, sample 1 ID on container LF-Water 2-11062020.

Sample 4 has both 250 mL and 2 of 4 125 mL plastic containers there are two dashes on sample containers after LF and Water 4. The other 2 125 mL have only one dash which is after water 4.

Sample 6 has both 250 mL and all 125 mL plastic containers there are two dashes on sample containers after LF and Water 7.

Sample 8 has both containers with ID as DUP-11062020.

Sample 11 has both container IDs as PFAS TRIP BLANKS but coc has ID listed as Trip Blanks.

All samples were logged in and labeled according to COC.

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: Trip Blank 11062020 (320-66472-11). Sample 11 has sample collection date as 9-3-2020. Method 3535_PFC has 14 days HT. HT was up on 9/16/2020. Samples received on 11/7/2020. Based on the request to use 11/6/20 for the Trip Blank date, this sample was analyzed in hold.

LCMS

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS and M2-8:2 FTS of the following sample: LF Water 4 11062020 (320-66472-4). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for several IDA of the following sample: LF Water 7 11062020 (320-66472-6). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

Organic Prep

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 2 11062020

Lab Sample ID: 320-66472-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.3	J	.7	.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.89	J	1.9	.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.83	J	1.9	.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.59	J	1.9	.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.1	J	1.9	.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.0		1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.93	J	1.9	.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LF Water 3 11062020

Lab Sample ID: 320-66472-2

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.3	J	.9	.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.6	J	.0	.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.4	J	.0	.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.59	J	.0	.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.1	J	.0	.83	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.4		.0	.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	.0	.56	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LF Water 6 11062020

Lab Sample ID: 320-66472-3

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.9	J	.6	.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.3		1.9	.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.4		1.9	.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.86	J	1.9	.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.0	J	1.9	.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.56	J	1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.7	J	1.9	.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12		1.9	.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LF Water 4 11062020

Lab Sample ID: 320-66472-4

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	8.6		.7	.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	30		1.9	.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	15		1.9	.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.6		1.9	.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.9		1.9	.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.4		1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	1.9	.53	ng/L	1		537 (modified)	Total/NA
:2 FTS	33		.7	.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LF Water 5 11062020

Lab Sample ID: 320-66472-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.3	J	.6	.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.7		1.8	.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.6		1.8	.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.8	.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.97	J	1.8	.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.41	J	1.8	.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.71	J	1.8	.18	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 5 11062020 (Continued)

Lab Sample ID: 320-66472-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.8	.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12		1.8	.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LF Water 7 11062020

Lab Sample ID: 320-66472-6

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3		.7	.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	15		1.9	.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	11		1.9	.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	11		1.9	.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.6		1.9	.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.8	J	1.9	.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	100		1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.3		1.9	.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.1		1.9	.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LF Water 8 11062020

Lab Sample ID: 320-66472-7

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)			.9	.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	13		1.9	.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	11		1.9	.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	11		1.9	.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.3		1.9	.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.7	J	1.9	.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	100		1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.9		1.9	.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.1		1.9	.53	ng/L	1		537 (modified)	Total/NA

Client Sample ID: DUP 11062020

Lab Sample ID: 320-66472-8

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1		.6	.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	14		1.9	.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	11		1.9	.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	10		1.9	.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.1		1.9	.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.8	J	1.9	.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	100		1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.0		1.9	.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.6		1.9	.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Field Blank 11062020

Lab Sample ID: 320-66472-9

No Detections.

Client Sample ID: Equipment Blank 11062020

Lab Sample ID: 320-66472-10

No Detections.

Client Sample ID: Trip Blank 11062020

Lab Sample ID: 320-66472-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 2 11062020

Lab Sample ID: 320-66472-1

Date Collected: 11/06/20 09:40

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.3	J	.7	.3	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluoropentanoic acid (PFPeA)	0.89	J	1.9	.46	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorohexanoic acid (PFHxA)	0.83	J	1.9	.55	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluoroheptanoic acid (PFHpA)	0.59	J	1.9	.24	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorooctanoic acid (PFOA)	1.1	J	1.9	.80	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorononanoic acid (PFNA)	ND		1.9	.25	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.52	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.69	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9	.19	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorohexanesulfonic acid (PFHxS)	0.93	J	1.9	.54	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	.51	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/11/20 19:32	11/12/20 16:31	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.92	ng/L		11/11/20 19:32	11/12/20 16:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	1.1	ng/L		11/11/20 19:32	11/12/20 16:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	1.2	ng/L		11/11/20 19:32	11/12/20 16:31	1
:2 FTS	ND		.7	.4	ng/L		11/11/20 19:32	11/12/20 16:31	1
8:2 FTS	ND		1.9	.43	ng/L		11/11/20 19:32	11/12/20 16:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			150	11/11/20 19:32	11/12/20 16:31	1
13C5 PFPeA	92		150	11/11/20 19:32	11/12/20 16:31	1
13C2 PFHxA	93		150	11/11/20 19:32	11/12/20 16:31	1
13C4 PFHpA	107		150	11/11/20 19:32	11/12/20 16:31	1
13C4 PFOA	102		150	11/11/20 19:32	11/12/20 16:31	1
13C5 PFNA	96		150	11/11/20 19:32	11/12/20 16:31	1
13C2 PFDA	97		150	11/11/20 19:32	11/12/20 16:31	1
13C2 PFUnA	90		150	11/11/20 19:32	11/12/20 16:31	1
13C2 PFDoA	92		150	11/11/20 19:32	11/12/20 16:31	1
13C2 PFTeDA	66		150	11/11/20 19:32	11/12/20 16:31	1
13C3 PFBS	88		150	11/11/20 19:32	11/12/20 16:31	1
18O2 PFHxS	104		150	11/11/20 19:32	11/12/20 16:31	1
13C4 PFOS	101		150	11/11/20 19:32	11/12/20 16:31	1
13C8 FOSA	95		150	11/11/20 19:32	11/12/20 16:31	1
d3-NMeFOSAA	86		150	11/11/20 19:32	11/12/20 16:31	1
NEtFOSAA	92		150	11/11/20 19:32	11/12/20 16:31	1
M2-6:2 FTS	130		150	11/11/20 19:32	11/12/20 16:31	1
M2-8:2 FTS	113		150	11/11/20 19:32	11/12/20 16:31	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 3 11062020

Lab Sample ID: 320-66472-2

Date Collected: 11/06/20 10:00

Matrix: W ter

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.3	J	.9	.3	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluoropentanoic acid (PFPeA)	1.6	J	.0	.48	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorohexanoic acid (PFHxA)	1.4	J	.0	.57	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluoroheptanoic acid (PFHpA)	0.59	J	.0	.24	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorooctanoic acid (PFOA)	1.1	J	.0	.83	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorononanoic acid (PFNA)	ND		.0	.26	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorodecanoic acid (PFDA)	ND		.0	.30	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluoroundecanoic acid (PFUnA)	ND		.0	1.1	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorododecanoic acid (PFDoA)	ND		.0	.54	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorotridecanoic acid (PFTriA)	ND		.0	1.3	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorotetradecanoic acid (PFTeA)	ND		.0	.71	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorobutanesulfonic acid (PFBS)	2.4		.0	.20	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	.0	.56	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.0	.19	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorooctanesulfonic acid (PFOS)	ND		.0	.53	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorodecanesulfonic acid (PFDS)	ND		.0	.31	ng/L		11/11/20 19:32	11/12/20 16:40	1
Perfluorooctanesulfonamide (FOSA)	ND		.0	.96	ng/L		11/11/20 19:32	11/12/20 16:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.9	1.2	ng/L		11/11/20 19:32	11/12/20 16:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.9	1.3	ng/L		11/11/20 19:32	11/12/20 16:40	1
:2 FTS	ND		.9	.4	ng/L		11/11/20 19:32	11/12/20 16:40	1
8:2 FTS	ND		.0	.45	ng/L		11/11/20 19:32	11/12/20 16:40	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	6		150	11/11/20 19:32	11/12/20 16:40	1
13C5 PFPeA	88		150	11/11/20 19:32	11/12/20 16:40	1
13C2 PFHxA	92		150	11/11/20 19:32	11/12/20 16:40	1
13C4 PFHpA	98		150	11/11/20 19:32	11/12/20 16:40	1
13C4 PFOA	98		150	11/11/20 19:32	11/12/20 16:40	1
13C5 PFNA	95		150	11/11/20 19:32	11/12/20 16:40	1
13C2 PFDA	98		150	11/11/20 19:32	11/12/20 16:40	1
13C2 PFUnA	92		150	11/11/20 19:32	11/12/20 16:40	1
13C2 PFDoA	85		150	11/11/20 19:32	11/12/20 16:40	1
13C2 PFTeDA			150	11/11/20 19:32	11/12/20 16:40	1
13C3 PFBS	80		150	11/11/20 19:32	11/12/20 16:40	1
18O2 PFHxS	90		150	11/11/20 19:32	11/12/20 16:40	1
13C4 PFOS	92		150	11/11/20 19:32	11/12/20 16:40	1
13C8 FOSA	90		150	11/11/20 19:32	11/12/20 16:40	1
d3-NMeFOSAA	88		150	11/11/20 19:32	11/12/20 16:40	1
NEtFOSAA	81		150	11/11/20 19:32	11/12/20 16:40	1
M2-6:2 FTS	114		150	11/11/20 19:32	11/12/20 16:40	1
M2-8:2 FTS	112		150	11/11/20 19:32	11/12/20 16:40	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 6 11062020

Lab Sample ID: 320-66472-3

Date Collected: 11/06/20 10:35

Matrix: W ter

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.9	J	.6	.2	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluoropentanoic acid (PFPeA)	2.3		1.9	.45	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorohexanoic acid (PFHxA)	2.4		1.9	.54	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluoroheptanoic acid (PFHpA)	0.86	J	1.9	.23	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorooctanoic acid (PFOA)	1.0	J	1.9	.79	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorononanoic acid (PFNA)	ND		1.9	.25	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.51	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.68	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorobutanesulfonic acid (PFBS)	0.56	J	1.9	.19	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorohexanesulfonic acid (PFHxS)	1.7	J	1.9	.53	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorooctanesulfonic acid (PFOS)	12		1.9	.50	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/11/20 19:32	11/12/20 16:49	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.91	ng/L		11/11/20 19:32	11/12/20 16:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.6	1.1	ng/L		11/11/20 19:32	11/12/20 16:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.6	1.2	ng/L		11/11/20 19:32	11/12/20 16:49	1
:2 FTS	ND		.6	.3	ng/L		11/11/20 19:32	11/12/20 16:49	1
8:2 FTS	ND		1.9	.43	ng/L		11/11/20 19:32	11/12/20 16:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	107		150	11/11/20 19:32	11/12/20 16:49	1
13C5 PFPeA	114		150	11/11/20 19:32	11/12/20 16:49	1
13C2 PFHxA	119		150	11/11/20 19:32	11/12/20 16:49	1
13C4 PFHpA	131		150	11/11/20 19:32	11/12/20 16:49	1
13C4 PFOA	126		150	11/11/20 19:32	11/12/20 16:49	1
13C5 PFNA	123		150	11/11/20 19:32	11/12/20 16:49	1
13C2 PFDA	113		150	11/11/20 19:32	11/12/20 16:49	1
13C2 PFUnA	98		150	11/11/20 19:32	11/12/20 16:49	1
13C2 PFDoA	97		150	11/11/20 19:32	11/12/20 16:49	1
13C2 PFTeDA	96		150	11/11/20 19:32	11/12/20 16:49	1
13C3 PFBS	108		150	11/11/20 19:32	11/12/20 16:49	1
18O2 PFHxS	121		150	11/11/20 19:32	11/12/20 16:49	1
13C4 PFOS	112		150	11/11/20 19:32	11/12/20 16:49	1
13C8 FOSA	114		150	11/11/20 19:32	11/12/20 16:49	1
d3-NMeFOSAA	110		150	11/11/20 19:32	11/12/20 16:49	1
NEtFOSAA	103		150	11/11/20 19:32	11/12/20 16:49	1
M2-6:2 FTS	136		150	11/11/20 19:32	11/12/20 16:49	1
M2-8:2 FTS	130		150	11/11/20 19:32	11/12/20 16:49	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 4 11062020

Lab Sample ID: 320-66472-4

Date Collected: 11/06/20 11:40

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.6		.7	.2	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluoropentanoic acid (PFPeA)	30		1.9	.46	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorohexanoic acid (PFHxA)	15		1.9	.54	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluoroheptanoic acid (PFHpA)	5.6		1.9	.23	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorooctanoic acid (PFOA)	3.9		1.9	.79	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorononanoic acid (PFNA)	ND		1.9	.25	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.51	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.68	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorobutanesulfonic acid (PFBS)	2.4		1.9	.19	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorohexanesulfonic acid (PFHxS)	1.5 J		1.9	.53	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	.50	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/11/20 19:32	11/12/20 17:17	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.91	ng/L		11/11/20 19:32	11/12/20 17:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	1.1	ng/L		11/11/20 19:32	11/12/20 17:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	1.2	ng/L		11/11/20 19:32	11/12/20 17:17	1
6:2 FTS	33		.7	.3	ng/L		11/11/20 19:32	11/12/20 17:17	1
8:2 FTS	ND		1.9	.43	ng/L		11/11/20 19:32	11/12/20 17:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		150	11/11/20 19:32	11/12/20 17:17	1
13C5 PFPeA	114		150	11/11/20 19:32	11/12/20 17:17	1
13C2 PFHxA	118		150	11/11/20 19:32	11/12/20 17:17	1
13C4 PFHpA	131		150	11/11/20 19:32	11/12/20 17:17	1
13C4 PFOA	129		150	11/11/20 19:32	11/12/20 17:17	1
13C5 PFNA	130		150	11/11/20 19:32	11/12/20 17:17	1
13C2 PFDA	126		150	11/11/20 19:32	11/12/20 17:17	1
13C2 PFUnA	111		150	11/11/20 19:32	11/12/20 17:17	1
13C2 PFDoA	115		150	11/11/20 19:32	11/12/20 17:17	1
13C2 PFTeDA	101		150	11/11/20 19:32	11/12/20 17:17	1
13C3 PFBS	103		150	11/11/20 19:32	11/12/20 17:17	1
18O2 PFHxS	120		150	11/11/20 19:32	11/12/20 17:17	1
13C4 PFOS	118		150	11/11/20 19:32	11/12/20 17:17	1
13C8 FOSA	128		150	11/11/20 19:32	11/12/20 17:17	1
d3-NMeFOSAA	109		150	11/11/20 19:32	11/12/20 17:17	1
NEtFOSAA	108		150	11/11/20 19:32	11/12/20 17:17	1
M2-6:2 FTS	163	*5	150	11/11/20 19:32	11/12/20 17:17	1
M2-8:2 FTS	155	*5	150	11/11/20 19:32	11/12/20 17:17	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 5 11062020

Lab Sample ID: 320-66472-5

Date Collected: 11/06/20 11:10

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.3	J	.6	.2	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluoropentanoic acid (PFPeA)	2.7		1.8	.45	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorohexanoic acid (PFHxA)	2.6		1.8	.53	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.8	.23	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorooctanoic acid (PFOA)	0.97	J	1.8	.78	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorononanoic acid (PFNA)	0.41	J	1.8	.25	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorodecanoic acid (PFDA)	ND		1.8	.29	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	.51	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	.67	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorobutanesulfonic acid (PFBS)	0.71	J	1.8	.18	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.8	.52	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	.17	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorooctanesulfonic acid (PFOS)	12		1.8	.50	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	.29	ng/L		11/11/20 19:32	11/12/20 17:44	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	.90	ng/L		11/11/20 19:32	11/12/20 17:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.6	1.1	ng/L		11/11/20 19:32	11/12/20 17:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.6	1.2	ng/L		11/11/20 19:32	11/12/20 17:44	1
:2 FTS	ND		.6	.3	ng/L		11/11/20 19:32	11/12/20 17:44	1
8:2 FTS	ND		1.8	.42	ng/L		11/11/20 19:32	11/12/20 17:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	85		150	11/11/20 19:32	11/12/20 17:44	1
13C5 PFPeA	89		150	11/11/20 19:32	11/12/20 17:44	1
13C2 PFHxA	93		150	11/11/20 19:32	11/12/20 17:44	1
13C4 PFHpA	100		150	11/11/20 19:32	11/12/20 17:44	1
13C4 PFOA	99		150	11/11/20 19:32	11/12/20 17:44	1
13C5 PFNA	97		150	11/11/20 19:32	11/12/20 17:44	1
13C2 PFDA	89		150	11/11/20 19:32	11/12/20 17:44	1
13C2 PFUnA	87		150	11/11/20 19:32	11/12/20 17:44	1
13C2 PFDoA	82		150	11/11/20 19:32	11/12/20 17:44	1
13C2 PFTeDA	1		150	11/11/20 19:32	11/12/20 17:44	1
13C3 PFBS	82		150	11/11/20 19:32	11/12/20 17:44	1
18O2 PFHxS	96		150	11/11/20 19:32	11/12/20 17:44	1
13C4 PFOS	91		150	11/11/20 19:32	11/12/20 17:44	1
13C8 FOSA	90		150	11/11/20 19:32	11/12/20 17:44	1
d3-NMeFOSAA	84		150	11/11/20 19:32	11/12/20 17:44	1
NEtFOSAA	88		150	11/11/20 19:32	11/12/20 17:44	1
M2-6:2 FTS	106		150	11/11/20 19:32	11/12/20 17:44	1
M2-8:2 FTS	94		150	11/11/20 19:32	11/12/20 17:44	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 7 11062020

Lab Sample ID: 320-66472-6

Date Collected: 11/06/20 12:15

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	23		.7	.3	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluoropentanoic acid (PFPeA)	15		1.9	.46	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorohexanoic acid (PFHxA)	11		1.9	.54	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluoroheptanoic acid (PFHpA)	11		1.9	.23	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorooctanoic acid (PFOA)	5.6		1.9	.80	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorononanoic acid (PFNA)	1.8 J		1.9	.25	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.52	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.68	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorobutanesulfonic acid (PFBS)	100		1.9	.19	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.9	.53	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorooctanesulfonic acid (PFOS)	2.1		1.9	.51	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/11/20 19:32	11/12/20 17:53	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.92	ng/L		11/11/20 19:32	11/12/20 17:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	1.1	ng/L		11/11/20 19:32	11/12/20 17:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	1.2	ng/L		11/11/20 19:32	11/12/20 17:53	1
:2 FTS	ND		.7	.3	ng/L		11/11/20 19:32	11/12/20 17:53	1
8:2 FTS	ND		1.9	.43	ng/L		11/11/20 19:32	11/12/20 17:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		150	11/11/20 19:32	11/12/20 17:53	1
13C5 PFPeA	118		150	11/11/20 19:32	11/12/20 17:53	1
13C2 PFHxA	124		150	11/11/20 19:32	11/12/20 17:53	1
13C4 PFHpA	133		150	11/11/20 19:32	11/12/20 17:53	1
13C4 PFOA	126		150	11/11/20 19:32	11/12/20 17:53	1
13C5 PFNA	129		150	11/11/20 19:32	11/12/20 17:53	1
13C2 PFDA	137		150	11/11/20 19:32	11/12/20 17:53	1
13C2 PFUnA	109		150	11/11/20 19:32	11/12/20 17:53	1
13C2 PFDoA	102		150	11/11/20 19:32	11/12/20 17:53	1
13C2 PFTeDA			150	11/11/20 19:32	11/12/20 17:53	1
13C3 PFBS	107		150	11/11/20 19:32	11/12/20 17:53	1
18O2 PFHxS	114		150	11/11/20 19:32	11/12/20 17:53	1
13C4 PFOS	122		150	11/11/20 19:32	11/12/20 17:53	1
13C8 FOSA	115		150	11/11/20 19:32	11/12/20 17:53	1
d3-NMeFOSAA	120		150	11/11/20 19:32	11/12/20 17:53	1
NEtFOSAA	98		150	11/11/20 19:32	11/12/20 17:53	1
M2-6:2 FTS	166	*5	150	11/11/20 19:32	11/12/20 17:53	1
M2-8:2 FTS	151	*5	150	11/11/20 19:32	11/12/20 17:53	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 8 11062020

Lab Sample ID: 320-66472-7

Date Collected: 11/06/20 12:50

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	20		.9	.3	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluoropentanoic acid (PFPeA)	13		1.9	.48	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorohexanoic acid (PFHxA)	11		1.9	.56	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluoroheptanoic acid (PFHpA)	11		1.9	.24	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorooctanoic acid (PFOA)	5.3		1.9	.83	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorononanoic acid (PFNA)	1.7 J		1.9	.26	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.30	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.1	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.54	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.3	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.71	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorobutanesulfonic acid (PFBS)	100		1.9	.19	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorohexanesulfonic acid (PFHxS)	1.9		1.9	.55	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorooctanesulfonic acid (PFOS)	2.1		1.9	.53	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.31	ng/L		11/11/20 19:32	11/12/20 18:02	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.95	ng/L		11/11/20 19:32	11/12/20 18:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.9	1.2	ng/L		11/11/20 19:32	11/12/20 18:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.9	1.3	ng/L		11/11/20 19:32	11/12/20 18:02	1
:2 FTS	ND		.9	.4	ng/L		11/11/20 19:32	11/12/20 18:02	1
8:2 FTS	ND		1.9	.45	ng/L		11/11/20 19:32	11/12/20 18:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	6		150	11/11/20 19:32	11/12/20 18:02	1
13C5 PFPeA	91		150	11/11/20 19:32	11/12/20 18:02	1
13C2 PFHxA	87		150	11/11/20 19:32	11/12/20 18:02	1
13C4 PFHpA	91		150	11/11/20 19:32	11/12/20 18:02	1
13C4 PFOA	93		150	11/11/20 19:32	11/12/20 18:02	1
13C5 PFNA	92		150	11/11/20 19:32	11/12/20 18:02	1
13C2 PFDA	90		150	11/11/20 19:32	11/12/20 18:02	1
13C2 PFUnA	88		150	11/11/20 19:32	11/12/20 18:02	1
13C2 PFDoA	6		150	11/11/20 19:32	11/12/20 18:02	1
13C2 PFTeDA	48		150	11/11/20 19:32	11/12/20 18:02	1
13C3 PFBS			150	11/11/20 19:32	11/12/20 18:02	1
18O2 PFHxS	89		150	11/11/20 19:32	11/12/20 18:02	1
13C4 PFOS	86		150	11/11/20 19:32	11/12/20 18:02	1
13C8 FOSA	83		150	11/11/20 19:32	11/12/20 18:02	1
d3-NMeFOSAA	92		150	11/11/20 19:32	11/12/20 18:02	1
NEtFOSAA	82		150	11/11/20 19:32	11/12/20 18:02	1
M2-6:2 FTS	122		150	11/11/20 19:32	11/12/20 18:02	1
M2-8:2 FTS	97		150	11/11/20 19:32	11/12/20 18:02	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: DUP 11062020

Lab Sample ID: 320-66472-8

Date Collected: 11/06/20 00:00

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	21		.6	.2	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluoropentanoic acid (PFPeA)	14		1.9	.46	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorohexanoic acid (PFHxA)	11		1.9	.54	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluoroheptanoic acid (PFHpA)	10		1.9	.23	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorooctanoic acid (PFOA)	5.1		1.9	.79	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorononanoic acid (PFNA)	1.8 J		1.9	.25	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.51	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.68	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorobutanesulfonic acid (PFBS)	100		1.9	.19	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.9	.53	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorooctanesulfonic acid (PFOS)	2.6		1.9	.50	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/11/20 19:32	11/12/20 18:11	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.91	ng/L		11/11/20 19:32	11/12/20 18:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.6	1.1	ng/L		11/11/20 19:32	11/12/20 18:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.6	1.2	ng/L		11/11/20 19:32	11/12/20 18:11	1
:2 FTS	ND		.6	.3	ng/L		11/11/20 19:32	11/12/20 18:11	1
8:2 FTS	ND		1.9	.43	ng/L		11/11/20 19:32	11/12/20 18:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	85		150	11/11/20 19:32	11/12/20 18:11	1
13C5 PFPeA	103		150	11/11/20 19:32	11/12/20 18:11	1
13C2 PFHxA	105		150	11/11/20 19:32	11/12/20 18:11	1
13C4 PFHpA	120		150	11/11/20 19:32	11/12/20 18:11	1
13C4 PFOA	115		150	11/11/20 19:32	11/12/20 18:11	1
13C5 PFNA	106		150	11/11/20 19:32	11/12/20 18:11	1
13C2 PFDA	107		150	11/11/20 19:32	11/12/20 18:11	1
13C2 PFUnA	103		150	11/11/20 19:32	11/12/20 18:11	1
13C2 PFDoA	91		150	11/11/20 19:32	11/12/20 18:11	1
13C2 PFTeDA			150	11/11/20 19:32	11/12/20 18:11	1
13C3 PFBS	87		150	11/11/20 19:32	11/12/20 18:11	1
18O2 PFHxS	111		150	11/11/20 19:32	11/12/20 18:11	1
13C4 PFOS	105		150	11/11/20 19:32	11/12/20 18:11	1
13C8 FOSA	102		150	11/11/20 19:32	11/12/20 18:11	1
d3-NMeFOSAA	103		150	11/11/20 19:32	11/12/20 18:11	1
NEtFOSAA	93		150	11/11/20 19:32	11/12/20 18:11	1
M2-6:2 FTS	147		150	11/11/20 19:32	11/12/20 18:11	1
M2-8:2 FTS	126		150	11/11/20 19:32	11/12/20 18:11	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: Field Blank 11062020

Lab Sample ID: 320-66472-9

Date Collected: 11/06/20 13:10

Matrix: W ter

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.6	.2	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	.45	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	.53	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	.23	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorooctanoic acid (PFOA)	ND		1.8	.77	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorononanoic acid (PFNA)	ND		1.8	.25	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorodecanoic acid (PFDA)	ND		1.8	.28	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	.50	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	.66	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	.18	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	.52	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	.17	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	.49	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	.29	ng/L		11/11/20 19:32	11/12/20 18:21	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	.89	ng/L		11/11/20 19:32	11/12/20 18:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.6	1.1	ng/L		11/11/20 19:32	11/12/20 18:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.6	1.2	ng/L		11/11/20 19:32	11/12/20 18:21	1
:2 FTS	ND		.6	.3	ng/L		11/11/20 19:32	11/12/20 18:21	1
8:2 FTS	ND		1.8	.42	ng/L		11/11/20 19:32	11/12/20 18:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91		150	11/11/20 19:32	11/12/20 18:21	1
13C5 PFPeA	97		150	11/11/20 19:32	11/12/20 18:21	1
13C2 PFHxA	89		150	11/11/20 19:32	11/12/20 18:21	1
13C4 PFHpA	97		150	11/11/20 19:32	11/12/20 18:21	1
13C4 PFOA	95		150	11/11/20 19:32	11/12/20 18:21	1
13C5 PFNA	93		150	11/11/20 19:32	11/12/20 18:21	1
13C2 PFDA	99		150	11/11/20 19:32	11/12/20 18:21	1
13C2 PFUnA	89		150	11/11/20 19:32	11/12/20 18:21	1
13C2 PFDoA	97		150	11/11/20 19:32	11/12/20 18:21	1
13C2 PFTeDA	90		150	11/11/20 19:32	11/12/20 18:21	1
13C3 PFBS	90		150	11/11/20 19:32	11/12/20 18:21	1
18O2 PFHxS	92		150	11/11/20 19:32	11/12/20 18:21	1
13C4 PFOS	95		150	11/11/20 19:32	11/12/20 18:21	1
13C8 FOSA	89		150	11/11/20 19:32	11/12/20 18:21	1
d3-NMeFOSAA	100		150	11/11/20 19:32	11/12/20 18:21	1
NEtFOSAA	95		150	11/11/20 19:32	11/12/20 18:21	1
M2-6:2 FTS	103		150	11/11/20 19:32	11/12/20 18:21	1
M2-8:2 FTS	113		150	11/11/20 19:32	11/12/20 18:21	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: Equipment Blank 11062020

Lab Sample ID: 320-66472-10

Date Collected: 11/06/20 13:05

Matrix: W ter

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.7	.3	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	.46	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	.55	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	.24	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorooctanoic acid (PFOA)	ND		1.9	.80	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorononanoic acid (PFNA)	ND		1.9	.26	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.52	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.69	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	.19	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	.54	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	.51	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/11/20 19:32	11/12/20 18:30	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.93	ng/L		11/11/20 19:32	11/12/20 18:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	1.1	ng/L		11/11/20 19:32	11/12/20 18:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	1.2	ng/L		11/11/20 19:32	11/12/20 18:30	1
:2 FTS	ND		.7	.4	ng/L		11/11/20 19:32	11/12/20 18:30	1
8:2 FTS	ND		1.9	.43	ng/L		11/11/20 19:32	11/12/20 18:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	107		150	11/11/20 19:32	11/12/20 18:30	1
13C5 PFPeA	108		150	11/11/20 19:32	11/12/20 18:30	1
13C2 PFHxA	115		150	11/11/20 19:32	11/12/20 18:30	1
13C4 PFHpA	120		150	11/11/20 19:32	11/12/20 18:30	1
13C4 PFOA	118		150	11/11/20 19:32	11/12/20 18:30	1
13C5 PFNA	113		150	11/11/20 19:32	11/12/20 18:30	1
13C2 PFDA	117		150	11/11/20 19:32	11/12/20 18:30	1
13C2 PFUnA	114		150	11/11/20 19:32	11/12/20 18:30	1
13C2 PFDoA	113		150	11/11/20 19:32	11/12/20 18:30	1
13C2 PFTeDA	90		150	11/11/20 19:32	11/12/20 18:30	1
13C3 PFBS	98		150	11/11/20 19:32	11/12/20 18:30	1
18O2 PFHxS	107		150	11/11/20 19:32	11/12/20 18:30	1
13C4 PFOS	103		150	11/11/20 19:32	11/12/20 18:30	1
13C8 FOSA	112		150	11/11/20 19:32	11/12/20 18:30	1
d3-NMeFOSAA	118		150	11/11/20 19:32	11/12/20 18:30	1
NEtFOSAA	120		150	11/11/20 19:32	11/12/20 18:30	1
M2-6:2 FTS	124		150	11/11/20 19:32	11/12/20 18:30	1
M2-8:2 FTS	126		150	11/11/20 19:32	11/12/20 18:30	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: Trip Blank 11062020

Lab Sample ID: 320-66472-11

Date Collected: 11/06/20 00:00

Matrix: W ter

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.8	.3	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	.47	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	.55	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	.24	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorooctanoic acid (PFOA)	ND		1.9	.81	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorononanoic acid (PFNA)	ND		1.9	.26	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.30	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.1	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.53	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.70	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	.19	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	.54	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	.52	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.31	ng/L		11/11/20 19:32	11/12/20 18:39	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.94	ng/L		11/11/20 19:32	11/12/20 18:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.8	1.1	ng/L		11/11/20 19:32	11/12/20 18:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.8	1.2	ng/L		11/11/20 19:32	11/12/20 18:39	1
:2 FTS	ND		.8	.4	ng/L		11/11/20 19:32	11/12/20 18:39	1
8:2 FTS	ND		1.9	.44	ng/L		11/11/20 19:32	11/12/20 18:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91		150	11/11/20 19:32	11/12/20 18:39	1
13C5 PFPeA	90		150	11/11/20 19:32	11/12/20 18:39	1
13C2 PFHxA	96		150	11/11/20 19:32	11/12/20 18:39	1
13C4 PFHpA	96		150	11/11/20 19:32	11/12/20 18:39	1
13C4 PFOA	98		150	11/11/20 19:32	11/12/20 18:39	1
13C5 PFNA	98		150	11/11/20 19:32	11/12/20 18:39	1
13C2 PFDA	102		150	11/11/20 19:32	11/12/20 18:39	1
13C2 PFUnA	91		150	11/11/20 19:32	11/12/20 18:39	1
13C2 PFDoA	93		150	11/11/20 19:32	11/12/20 18:39	1
13C2 PFTeDA	82		150	11/11/20 19:32	11/12/20 18:39	1
13C3 PFBS	88		150	11/11/20 19:32	11/12/20 18:39	1
18O2 PFHxS	87		150	11/11/20 19:32	11/12/20 18:39	1
13C4 PFOS	97		150	11/11/20 19:32	11/12/20 18:39	1
13C8 FOSA	92		150	11/11/20 19:32	11/12/20 18:39	1
d3-NMeFOSAA	103		150	11/11/20 19:32	11/12/20 18:39	1
NEtFOSAA	85		150	11/11/20 19:32	11/12/20 18:39	1
M2-6:2 FTS	117		150	11/11/20 19:32	11/12/20 18:39	1
M2-8:2 FTS	123		150	11/11/20 19:32	11/12/20 18:39	1

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-66472-1	LF Water 2 11062020	77	92	93	107	102	96	97	90
320-66472-2	LF Water 3 11062020	76	88	92	98	98	95	98	92
320-66472-3	LF Water 6 11062020	107	114	119	131	126	123	113	98
320-66472-3 MS	LF Water 6 11062020	86	92	93	102	97	101	100	80
320-66472-3 MSD	LF Water 6 11062020	93	99	99	107	106	105	98	93
320-66472-4	LF Water 4 11062020	100	114	118	131	129	130	126	111
320-66472-5	LF Water 5 11062020	85	89	93	100	99	97	89	87
320-66472-6	LF Water 7 11062020	100	118	124	133	126	129	137	109
320-66472-7	LF Water 8 11062020	76	91	87	91	93	92	90	88
320-66472-8	DUP 11062020	85	103	105	120	115	106	107	103
320-66472-9	Field Blank 11062020	91	97	89	97	95	93	99	89
320-66472-10	Equipment Blank 11062020	107	108	115	120	118	113	117	114
320-66472-11	Trip Blank 11062020	91	90	96	96	98	98	102	91
LCS 320-430854/2-A	Lab Control Sample	132	130	128	142	136	139	139	136
MB 320-430854/1-A	Method Blank	90	90	94	98	95	94	98	93
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFO (25-150)	d5NEFO (25-150)
320-66472-1	LF Water 2 11062020	92		88	104	101	95	86	92
320-66472-2	LF Water 3 11062020	85	72	80	90	92	90	88	81
320-66472-3	LF Water 6 11062020	97	96	108	121	112	114	110	103
320-66472-3 MS	LF Water 6 11062020	88	71	82	92	92	91	90	83
320-66472-3 MSD	LF Water 6 11062020	82	85	96	101	100	99	96	88
320-66472-4	LF Water 4 11062020	115	101	103	120	118	128	109	108
320-66472-5	LF Water 5 11062020	82	71	82	96	91	90	84	88
320-66472-6	LF Water 7 11062020	102	57	107	114	122	115	120	98
320-66472-7	LF Water 8 11062020	76	8	77	89	86	83	92	82
320-66472-8	DUP 11062020	91	52	87	111	105	102	103	93
320-66472-9	Field Blank 11062020	97	90	90	92	95	89	100	95
320-66472-10	Equipment Blank 11062020	113	90	98	107	103	112	118	120
320-66472-11	Trip Blank 11062020	93	82	88	87	97	92	103	85
LCS 320-430854/2-A	Lab Control Sample	135	129	117	129	145	134	142	126
MB 320-430854/1-A	Method Blank	92	88	87	97	96	95	96	85
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
320-66472-1	LF Water 2 11062020	130	113						
320-66472-2	LF Water 3 11062020	11	11						
320-66472-3	LF Water 6 11062020	136	130						
320-66472-3 MS	LF Water 6 11062020	107	105						
320-66472-3 MSD	LF Water 6 11062020	114	100						
320-66472-4	LF Water 4 11062020	163 *5	155 *5						
320-66472-5	LF Water 5 11062020	106	94						
320-66472-6	LF Water 7 11062020	166 *5	151 *5						
320-66472-7	LF Water 8 11062020	122	97						
320-66472-8	DUP 11062020	147	126						
320-66472-9	Field Blank 11062020	103	113						
320-66472-10	Equipment Blank 11062020	124	126						
320-66472-11	Trip Blank 11062020	117	123						

Eurofins TestAmerica, Sacramento

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
LCS 320-430854/2-A	Lab Control Sample	150	142
MB 320-430854/1-A	Method Blank	108	105
rrogate Legend			
PFBA = 13C4 PFBA			
PFPeA = 13C5 PFPeA			
PFHxA = 13C2 PFHxA			
C4PFHA = 13C4 PFHpA			
PFOA = 13C4 PFOA			
PFNA = 13C5 PFNA			
PFDA = 13C2 PFDA			
PFUnA = 13C2 PFUnA			
PFDoA = 13C2 PFDoA			
PFTDA = 13C2 PFTeDA			
C3PFBS = 13C3 PFBS			
PFHxS = 18O2 PFHxS			
PFOS = 13C4 PFOS			
PFOSA = 13C8 FOSA			
d3NMFOS = d3-NMeFOSAA			
d5NEFOS = d5-NEtFOSAA			
M262FTS = M2-6:2 FTS			
M282FTS = M2-8:2 FTS			

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-430854/1-A
Matrix: Water
Analysis Batch: 431537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430854

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PergLorobLtanoic aci9 5P8f ud	ND		(.0	.4	nF/A		11/11/20 1):32	11/12/20 1(: (4	1
PergLoroUentanoic aci9 5P8Peud	ND		.0	.4)	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLorohepanoic aci9 5P8Hpud	ND		.0	0.(T	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLoroheUtanoic aci9 5P8HUd	ND		.0	.2(	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLorooctanoic aci9 5P8Oud	ND		.0	0.T(	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLorononanoic aci9 5P8Nud	ND		.0	.27	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLoro9ecanoic aci9 5P8Dud	ND		.0	.31	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLoroLn9ecanoic aci9 5P8mnud	ND		.0	1.1	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLoro9o9ecanoic aci9 5P8Doud	ND		.0	.((	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLorotri9ecanoic aci9 5P8yriud	ND		.0	1.3	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLorotetra9ecanoic aci9 5P8yeud	ND		.0	.73	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLorobLtanecLignic aci9 5P8f Sd	ND		.0	.20	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLorohepanecLignic aci9 5P8HpSd	ND		.0	0.(7	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLoroheUtaneLignic u ci9 5P8HUSd	ND		.0	.1)	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLorooctaneLignic aci9 5P8OSd	ND		.0	.(	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLoro9ecaneLignic aci9 5P8DSd	ND		.0	.32	nF/A		11/11/20 1):32	11/12/20 1(: (	1
PergLorooctaneLignicMi9e 5BOSud	ND		.0	0.) T	nF/A		11/11/20 1):32	11/12/20 1(: (	1
N-Meth, lUergLorooctaneLignicMi9oacetic aci9 5NB e8OSuud	ND		(.0	1.2	nF/A		11/11/20 1):32	11/12/20 1(: (	1
N-eth, lUergLorooctaneLignicMi9oacetic aci9 5NEt8OSuud	ND		(.0	1.3	nF/A		11/11/20 1):32	11/12/20 1(: (	1
6:2 8yS	ND		(.0	.(	nF/A		11/11/20 1):32	11/12/20 1(: (	1
T: 8yS	ND		.0	.46	nF/A		11/11/20 1):32	11/12/20 1(: (	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA			- 150	11/11/20 19:32	11/12/20 15:54	1
13C5 PFPeA			- 150	11/11/20 19:32	11/12/20 15:54	1
13C2 PFHxA	4		- 150	11/11/20 19:32	11/12/20 15:54	1
13C4 PFHpA	8		- 150	11/11/20 19:32	11/12/20 15:54	1
13C4 PFOA			- 150	11/11/20 19:32	11/12/20 15:54	1
13C5 PFNA	4		- 150	11/11/20 19:32	11/12/20 15:54	1
13C2 PFDA	8		- 150	11/11/20 19:32	11/12/20 15:54	1
13C2 PFUnA	3		- 150	11/11/20 19:32	11/12/20 15:54	1
13C2 PFDoA			- 150	11/11/20 19:32	11/12/20 15:54	1
13C2 PFTeDA	88		- 150	11/11/20 19:32	11/12/20 15:54	1
13C3 PFBS	87		- 150	11/11/20 19:32	11/12/20 15:54	1
18O2 PFHxS	7		- 150	11/11/20 19:32	11/12/20 15:54	1
13C4 PFOS	6		- 150	11/11/20 19:32	11/12/20 15:54	1
13C8 FOSA			- 150	11/11/20 19:32	11/12/20 15:54	1
d3-NMeFOSAA	6		- 150	11/11/20 19:32	11/12/20 15:54	1
-NEtFOSAA	85		- 150	11/11/20 19:32	11/12/20 15:54	1
M2-6:2 FTS	108		- 150	11/11/20 19:32	11/12/20 15:54	1
M2-8:2 FTS	105		- 150	11/11/20 19:32	11/12/20 15:54	1

ELrogn yestu Mericax SacraMento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

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

Lab Sample ID: LCS 320-430854/2-A

Matrix: Water

Analysis Batch: 431537

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 430854

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PergLorobLtanoic aci9 5P8f ud	.0	.0		nF/A		110	76 136
PergLoroUentanoic aci9 5P8Peud	.0	3T.7		nF/A		) 7	71 131
PergLorohepanoic aci9 5P8Hpud	.0	(.6		nF/A		114	73 133
PergLoroheUanoic aci9 5P8HUud	.0	1.4		nF/A		103	72 132
PergLorooctanoic aci9 5P8Oud	.0	.1		nF/A		10(	70 130
PergLorononanoic aci9 5P8Nuud	.0	.)		nF/A		107	7(13(
PergLoro9ecanoic aci9 5P8Duud	.0	.6		nF/A		106	76 136
PergLoroLn9ecanoic aci9 5P8muud	.0	3). (		nF/A		))	T 12T
PergLoro9o9ecanoic aci9 5P8Douud	.0	(.2		nF/A		113	71 131
PergLorotri9ecanoic aci9 5P8yriuud	.0	3.0		nF/A		107	71 131
PergLorotetra9ecanoic aci9 5P8yeuud	.0	(.0		nF/A		112	70 130
PergLorobLtanesLlgonic aci9 5P8f Sd	3(.4	3).7		nF/A		112	7 127
PergLorohepanesLlgonic aci9 5P8HpSd	36.4	37.2		nF/A		102	() 11)
PergLoroheUanesLlgonic uci9 5P8HUSd	3T.1	37.4		nF/A		) T	76 136
PergLorooctanesLlgonic aci9 5P8OSd	37.1	3).3		nF/A		106	70 130
PergLoro9ecanesLlgonic aci9 5P8DSd	3T.6	3T.T		nF/A		101	71 131
PergLorooctanesLlgonaMi9e 5P8OSuud	.0	(.1		nF/A		12(	73 133
N-Meth, lUergLorooctanesLlgonaMi9oacetic aci9 5NB e8OSuud	.0	3.0		nF/A		10T	76 136
N-eth, lUergLorooctanesLlgonaMi9oacetic aci9 5NEt8OSuud	.0	.6		nF/A		107	76 136
6:2 8yS	37.)	3T.2		nF/A		101	() 17(
T: 8yS	3T.3	.		nF/A		1	7(13(

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	132		- 150
13C5 PFPeA	130		- 150
13C2 PFHxA	128		- 150
13C4 PFHpA	142		- 150
13C4 PFOA	136		- 150
13C5 PFNA	139		- 150
13C2 PFDA	139		- 150
13C2 PFUnA	136		- 150
13C2 PFDaA	135		- 150
13C2 PFTeDA	129		- 150
13C3 PFBS	117		- 150
18O2 PFHxS	129		- 150
13C4 PFOS	145		- 150
13C8 FOSA	134		- 150
3-NMeFOSAA	142		- 150
-NEtFOSAA	126		- 150

ELrogn yestu Mericax SacraMento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

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

Lab Sample ID: LCS 320-430854/2-A

Matrix: Water

Analysis Batch: 431537

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 430854

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	150		- 150
M2-8:2 FTS	142		- 150

Lab Sample ID: 320-66472-3 MS

Matrix: Water

Analysis Batch: 431537

Client Sample ID: LF Water 6 11062020

Prep Type: Total/NA

Prep Batch: 430854

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	Limits
Perflorobutanoic acid P8f ud	.)	J	37.2	.4		nF/A		101	76 136
Perflorooctanoic acid P8Oud	.3		37.2	37.1		nF/A		)	71 131
Perflorodecanoic acid P8Hud	.4		37.2	.6		nF/A		103	73 133
Perflorododecanoic acid P8H12ud	.T	J	37.2	37.7		nF/A		102	72 132
Perflorooctanoic acid P8Oud	1.0	J	37.2	.T		nF/A		107	70 130
Perflorononanoic acid P8Nud	ND		37.2	1.7		nF/A		112	7(13(
Perflorodecanoic acid P8Dud	ND		37.2	37.7		nF/A		101	76 136
Perflorododecanoic acid P8D12ud	ND		37.2	.(		nF/A		10)	T 12T
Perflorodecanoic acid P8Dud	ND		37.2	37.2		nF/A		100	71 131
Perflorodecanoic acid P8Dud	ND		37.2	36.1		nF/A		)7	71 131
Perflorotetradecanoic acid P8Tud	ND		37.2	3.1		nF/A		116	70 130
Perflorodecanoic acid P8Dud	ND		37.2	36.1		nF/A		10T	7 127
Perflorodecanoic acid P8Dud	1.7	J	33.T	36.T		nF/A		104	() 11)
Perflorodecanoic acid P8Dud	ND		3(.4	3) .1		nF/A		110	76 136
Perflorodecanoic acid P8Dud	12		34.(	(.)		nF/A		113	70 130
Perflorodecanoic acid P8Dud	ND		3(.T	31.3		nF/A		TT	71 131
Perflorodecanoic acid P8Dud	ND		37.2	1.7		nF/A		112	73 133
N-Meth, IperflorooctanesLignaMi9e	ND		37.2	36.T		nF/A		)	76 136
N-eth, IperflorooctanesLignaMi9e	ND		37.2	36.7		nF/A		)	76 136
6:2 8yS	ND		3(.2	33.)		nF/A		)	() 17(
T:2 8yS	ND		3(.6	37.3		nF/A		10(	7(13(

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	86		- 150
13C5 PFPeA			- 150
13C2 PFHxA	3		- 150
13C4 PFHpA	102		- 150
13C4 PFOA	7		- 150
13C5 PFNA	101		- 150
13C2 PFDA	100		- 150
13C2 PFUnA	80		- 150
13C2 PFDoA	88		- 150

ELrogn yestu Mericax Sacra Mento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

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

Lab Sample ID: 320-66472-3 MS

Matrix: Water

Analysis Batch: 431537

Client Sample ID: LF Water 6 11062020

Prep Type: Total/NA

Prep Batch: 430854

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFTeDA	71		- 150
13C3 PFBS	82		- 150
18O2 PFHxS			- 150
13C4 PFOS			- 150
13C8 FOSA	1		- 150
d3-NMeFOSAA			- 150
-NEtFOSAA	83		- 150
M2-6:2 FTS	107		- 150
M2-8:2 FTS	105		- 150

Lab Sample ID: 320-66472-3 MSD

Matrix: Water

Analysis Batch: 431537

Client Sample ID: LF Water 6 11062020

Prep Type: Total/NA

Prep Batch: 430854

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	PD	PD Limit
PerdLorobLtanoic aci9 5P8f ud	.)	J	37.7	.4		nF/A		10(	76 136	(	3
PerdLoroUentanoic aci9 5P8Peud	.3		37.7	3(.3		nF/A		T7	71 131	(	30
PerdLorohepanoic aci9 5P8Hpud	.4		37.7	3.4		nF/A		10)	73 133	7	30
PerdLoroheUanoic aci9 5P8HUud	.T	J	37.7	.3		nF/A		10(	72 132		30
PerdLoroOctanoic aci9 5P8Oud	1.0	J	37.7	3).6		nF/A		102	70 130	3	30
PerdLorononanoic aci9 5P8Nud	ND		37.7	.4		nF/A		11T	7(13(		30
PerdLoro9ecanoic aci9 5P8Dud	ND		37.7	1.)		nF/A		111	76 136	11	30
PerdLoroLn9ecanoic aci9 5P8mnud	ND		37.7	36.2		nF/A		)	T 12T	11	30
PerdLoro9o9ecanoic aci9 5P8Doud	ND		37.7	(.)		nF/A		122	71 131	1	30
PerdLoro9ecanoic aci9 5P8yriud	ND		37.7	(.3		nF/A		120	71 131	3	30
PerdLoro9ecanoic aci9 5P8yeud	ND		37.7	.)		nF/A		114	70 130		30
PerdLorobLtanesLlgnic aci9 5P8f Sd	.(	J	33.3	34.6		nF/A		102	7 127		30
PerdLorohepanesLlgnic aci9 5P8HpSd	1.7	J	34.3	37.0		nF/A		103	() 11)		3
PerdLoroheUanesLlgnic u ci9 5P8HUSd	ND		3(.)	3).)		nF/A		110	76 136	1	30
PerdLoroOctanesLlgnic aci9 5P8OSd	12		3(.0	4T.T		nF/A		106	70 130		30
PerdLoro9ecanesLlgnic aci9 5P8DSd	ND		36.4	31.4		nF/A		T	71 131		30
PerdLoroOctanesLlgnicMi9e 5P8OSud	ND		37.7	3.7		nF/A		116	73 133	(	30
N-Meth, lUergLoroOctanesLlgnicMi9oacetic aci9 5NB e8OSuud	ND		37.7	3T.(		nF/A		102	76 136		30
N-eth, lUergLoroOctanesLlgnicMi9oacetic aci9 5NEt8OSuud	ND		37.7	3).6		nF/A		10(	76 136	7	30
6:2 8yS	ND		3(.T	37.0		nF/A		103	() 17(	)	30
T:2 8yS	ND		36.1	3T.(		nF/A		107	7(13(	3	30
Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits								
13C4 PFBA	3		- 150								
13C5 PFPeA			- 150								

ELrogn yestu Mericax SacraMento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

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

Lab Sample ID: 320-66472-3 MSD

Matrix: Water

Analysis Batch: 431537

Client Sample ID: LF Water 6 11062020

Prep Type: Total/NA

Prep Batch: 430854

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
13C2 PFHxA			- 150
13C4 PFHpA	107		- 150
13C4 PFOA	106		- 150
13C5 PFNA	105		- 150
13C2 PFDA	8		- 150
13C2 PFUnA	3		- 150
13C2 PFDoA	82		- 150
13C2 PFTeDA	85		- 150
13C3 PFBS	6		- 150
18O2 PFHxS	101		- 150
13C4 PFOS	100		- 150
13C8 FOSA			- 150
d3-NMeFOSAA	6		- 150
-NEtFOSAA	88		- 150
M2-6:2 FTS	114		- 150
M2-8:2 FTS	100		- 150

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

LCMS

Prep Batch: 430854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66472-1	LF Water 2 11062020	Total/NA	Water	3535	
320-66472-2	LF Water 3 11062020	Total/NA	Water	3535	
320-66472-3	LF Water 6 11062020	Total/NA	Water	3535	
320-66472-4	LF Water 4 11062020	Total/NA	Water	3535	
320-66472-5	LF Water 5 11062020	Total/NA	Water	3535	
320-66472-6	LF Water 7 11062020	Total/NA	Water	3535	
320-66472-7	LF Water 8 11062020	Total/NA	Water	3535	
320-66472-8	DUP 11062020	Total/NA	Water	3535	
320-66472-9	Field Blank 11062020	Total/NA	Water	3535	
320-66472-10	Equipment Blank 11062020	Total/NA	Water	3535	
320-66472-11	Trip Blank 11062020	Total/NA	Water	3535	
MB 320-430854/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-430854/2-A	Lab Control Sample	Total/NA	Water	3535	
320-66472-3 MS	LF Water 6 11062020	Total/NA	Water	3535	
320-66472-3 MSD	LF Water 6 11062020	Total/NA	Water	3535	

Analysis Batch: 431537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66472-1	LF Water 2 11062020	Total/NA	Water	537 (modified)	30854
320-66472-2	LF Water 3 11062020	Total/NA	Water	537 (modified)	30854
320-66472-3	LF Water 6 11062020	Total/NA	Water	537 (modified)	30854
320-66472-4	LF Water 4 11062020	Total/NA	Water	537 (modified)	30854
320-66472-5	LF Water 5 11062020	Total/NA	Water	537 (modified)	30854
320-66472-6	LF Water 7 11062020	Total/NA	Water	537 (modified)	30854
320-66472-7	LF Water 8 11062020	Total/NA	Water	537 (modified)	30854
320-66472-8	DUP 11062020	Total/NA	Water	537 (modified)	30854
320-66472-9	Field Blank 11062020	Total/NA	Water	537 (modified)	30854
320-66472-10	Equipment Blank 11062020	Total/NA	Water	537 (modified)	30854
320-66472-11	Trip Blank 11062020	Total/NA	Water	537 (modified)	30854
MB 320-430854/1-A	Method Blank	Total/NA	Water	537 (modified)	30854
LCS 320-430854/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	30854
320-66472-3 MS	LF Water 6 11062020	Total/NA	Water	537 (modified)	30854
320-66472-3 MSD	LF Water 6 11062020	Total/NA	Water	537 (modified)	30854

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 2 11062020

Lab Sample ID: 320-66472-1

Date Collected: 11/06/20 09:40

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			265.8 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 16:31	K1S	TAL SAC

Client Sample ID: LF Water 3 11062020

Lab Sample ID: 320-66472-2

Date Collected: 11/06/20 10:00

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			255.5 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 16:40	K1S	TAL SAC

Client Sample ID: LF Water 6 11062020

Lab Sample ID: 320-66472-3

Date Collected: 11/06/20 10:35

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			269.5 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 16:49	K1S	TAL SAC

Client Sample ID: LF Water 4 11062020

Lab Sample ID: 320-66472-4

Date Collected: 11/06/20 11:40

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			268.5 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 17:17	K1S	TAL SAC

Client Sample ID: LF Water 5 11062020

Lab Sample ID: 320-66472-5

Date Collected: 11/06/20 11:10

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			271.5 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 17:44	K1S	TAL SAC

Client Sample ID: LF Water 7 11062020

Lab Sample ID: 320-66472-6

Date Collected: 11/06/20 12:15

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			266.6 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 17:53	K1S	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Client Sample ID: LF Water 8 11062020

Lab Sample ID: 320-66472-7

Date Collected: 11/06/20 12:50

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			256.9 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 18:02	K1S	TAL SAC

Client Sample ID: DUP 11062020

Lab Sample ID: 320-66472-8

Date Collected: 11/06/20 00:00

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			269 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 18:11	K1S	TAL SAC

Client Sample ID: Field Blank 11062020

Lab Sample ID: 320-66472-9

Date Collected: 11/06/20 13:10

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			274.6 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 18:21	K1S	TAL SAC

Client Sample ID: Equipment Blank 11062020

Lab Sample ID: 320-66472-10

Date Collected: 11/06/20 13:05

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			264.7 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 18:30	K1S	TAL SAC

Client Sample ID: Trip Blank 11062020

Lab Sample ID: 320-66472-11

Date Collected: 11/06/20 00:00

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			261.6 mL	10.00 mL	430854	11/11/20 19:32	VP	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431537	11/12/20 18:39	K1S	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	ELAP	E87570	06-30-21
Georgia	State	4040	01-30-21
Hawaii	State	<cert No.>	01-29-21
Illinois	ELAP	200060	03-17-21
Kansas	ELAP	E-10375	02-01-21
Louisiana	ELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	08-03-23
evada	State	CA000442021-2	11-23-20
ew Hampshire	ELAP	2997	04-18-21
ew Jersey	ELAP	CA005	06-30-21
ew k	ELAP	11666	04-01-21
Oregon	ELAP	4040	01-29-21
Pennsylvania	ELAP	68-01272	03-31-21
Texas	ELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	ELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	ELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-20
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Sacramento

Method Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

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 SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-1

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-66472-1	LF Water 2 11062020	Water	11/06/20 09:40	11/07/20 09:25	
320-66472-2	LF Water 3 11062020	Water	11/06/20 10:00	11/07/20 09:25	
320-66472-3	LF Water 6 11062020	Water	11/06/20 10:35	11/07/20 09:25	
320-66472-4	LF Water 4 11062020	Water	11/06/20 11:40	11/07/20 09:25	
320-66472-5	LF Water 5 11062020	Water	11/06/20 11:10	11/07/20 09:25	
320-66472-6	LF Water 7 11062020	Water	11/06/20 12:15	11/07/20 09:25	
320-66472-7	LF Water 8 11062020	Water	11/06/20 12:50	11/07/20 09:25	
320-66472-8	DUP 11062020	Water	11/06/20 00:00	11/07/20 09:25	
320-66472-9	Field Blank 11062020	Water	11/06/20 13:10	11/07/20 09:25	
320-66472-10	Equipment Blank 11062020	Water	11/06/20 13:05	11/07/20 09:25	
320-66472-11	Trip Blank 11062020	Water	11/06/20 00:00	11/07/20 09:25	

Eurofins TestAmerica, Sacramento

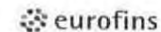
880 Riverside Parkway
West Sacramento, CA 95605

Phone: 916-373-5600 Fax: 916-372-1059

Albany

#224

Chain of Custody Record

Environment Testing
America

Client Information		Sample: <i>Brie Hart</i>		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 480-150125-33367.1	
Client Contact: Lynn Winterberger		Phone:		E-Mail: Judy.Stone@Eurofinset.com				Page: Page 1 of 1	
Company: New York State D.E.C.		Due Date Requested:						Job #:	
Address: 625 Broadway Division of Environmental Remediation		TAT Requested (days): <i>Standard</i>						Analysis Requested:	
City: Albany		PO #: Call Out DMM R4 - 401041						Barcode: 320-66472 Chain of Custody	
State, Zip: NY, 12233-7014		WO #:						Preservation Codes:	
Phone: 518-402-9267 (Tel)		Project #: 48022694						HCL M - Hexane	
Email: lynn.winterberger@dec.ny.gov		SSOW#:						NaOH N - None	
Project Name: Norlite - Cohoes #401041								Zn Acetate O - AsNaO2	
Site:								Nitric Acid P - Na2O4S	
								NaHSO4 Q - Na2SO3	
								MeOH R - Na2S2O3	
								Amchlor S - H2SO4	
								Ascorbic Acid T - TSP Dodecahydrate	
								Ice U - Acetone	
								J - DI Water V - MCAA	
								K - EDTA W - pH 4-5	
								L - EDA Z - other (specify)	
								Other:	
								Special Instructions/Note:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - TOPS Assay	Total Number of Containers
LF Water 2 11/06/2020		11/06/2020	9:40 AM	G	Water				2
LF Water 3 11/06/2020		11/06/2020	10:00 AM	G	Water				2
LF Water 6 11/06/2020		11/06/2020	10:35 AM	G	Solid	X	X		6 MS/MSD
LF Water 4 11/06/2020		11/06/2020	11:49 AM	G	Solid	X	X		6
LF Water 5 11/06/2020		11/06/2020	11:10	G	W				2
LF Water 7 11/06/2020		11/06/2020	12:15	G	W	X	X		6
LF Water 8 11/06/2020		11/06/2020	12:50	G	W	X			2
DUP 11/06/2020		11/06/2020		G	W	X			2
Field Blank 11/06/2020		11/06/2020	1:00 PM	G	W	X			2
Equipment Blank 11/06/2020		11/06/2020	1:05 PM	G	W	X			2
Trip Blank				C	W	X			2
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify) <i>Cat B and EDD</i>		Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:					
Relinquished by: <i>Ral Zoch</i>		Date/Time: 11/6/2020 14:00	Company: NYSDEC	Received by: <i>Ral Zoch</i>		Date/Time: 11/6/20 1400	Company: <i>Cuepin</i>		
Relinquished by: <i>Ral Zoch</i>		Date/Time: 11/6/20 1700	Company: <i>Borden</i>	Received by: <i>Ral Zoch</i>		Date/Time: 11/7/20 925	Company: <i>Cuepin</i>		
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:		
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.: 1478558		Cooler Temperature(s) °C and Other Remarks: 0.1/0.6					

Ver: 01/16/2019

*M.35mg 2 dashes (-) after LF: water 2 (6) so 11/7th
 - 4 of 4 125mg only 1 dash after water 7 (-) so 11/7th

2054 125mg only 1 dash after water 4 (-) so 11/7th
 Δ Date 9/2/20 14 3 11/7/20 11 0 6 8 7 6 5 4 3 2 1

10 PFS Trip Blank 501/7th

Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 320-66472-1

Login Number: 66472

List Source: Eurofins T stAmerica, Sacramento

List Number: 1

Creator: Oropeza, Salvador

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	ue	
The cooler's custody seal, if present, is intact.	ue	1428558
he cooler or samples do not appear to have been compromised or tampered with.	ue	
Samples were received on ice.	ue	
Cooler emperature is acceptable.	ue	
Cooler emperature is recorded.	ue	
COC is present.	ue	
COC is filled out in ink and legible.	ue	
COC is filled out with all pertinent information.	False	: No date or time on COC or containers
Is the Field Sampler's name present on COC?	ue	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding ime (Excluding tests with immediate HTs)..	False	Refer to job narrative for details
Sample containers have legible labels.	ue	
Containers are not broken or leaking.	ue	
Sample collection date/times are provided.	ue	
Appropriate sample containers are used.	ue	
Sample bottles are completely filled.	ue	
Sample Preservation Verified	ue	
There is sufficient vol. for all requested analyses, incl. any equested MS/MSDs	ue	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	ue	
If necessary, staff have been informed of any short hold time o quick A needs	ue	
Multiphasic samples are not present.	ue	
Samples do not require splitting or compositing.	ue	
Sampling Company provided.	ue	
Samples received within 48 hours of sampling.	ue	
Samples requiring field filtration have been filtered in the field.	ue	
Chlorine Residual checked.	ue	

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-66472-2

Client Project/Site: Norlite - Cohoes #401041

For:

New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Lynn M Winterberger



Authorized for release by:
11/23/2020 4:54:15 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
Isotope Dilution Summary	13
QC Sample Results	15
QC Association Summary	22
Lab Chronicle	23
Certification Summary	24
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	29

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Qualifiers

LCMS

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance limits.
B	Compound was found in the blank and sample.

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
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: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

ID: 320-66472-2

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Narrative 320-66472-2

Receipt

The samples were received on 11/7/2020 9:25 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

LCMS

Method 537 (modified): Method(s) 537 (modified): The labeled analyte M2-4:2FTS is converted to PFBA during the oxidation step of the TOP assay. The PFBA result in the Post-Treatment Method Blank (MB) indicates how much of a field sample's Post-Treatment PFBA result is contributed by the Reverse Surrogate, when adjusted for dilution factors. (MB 320-432348/1-A)

Method 537 (modified): Method(s) 537 (modified): Zero percent recovery of precursor analytes (4:2FTS, 6:2FTS, 8:2FTS, FOSA, NMeFOSAA, and NEtFOSAA) and enhanced recoveries of PFCAs is observed in the Post-Treatment Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) associated with these samples, consistent with the expected oxidation of precursor analytes. (LCS 320-432348/2-A) and (LCSD 320-432348/3-A)

Method 537 (modified): Method(s) 537 (modified): The labeled analyte M2-4:2FTS is employed in this analysis as a "Reverse Surrogate". It is used to monitor the oxidation efficiency of the TOP assay. This analyte is fortified into all sample fractions prior to any processing. The recovery of this analyte should be 0% in Post-Treatment fractions, indicating complete oxidation of the sample. LF Water 4 11062020 (320-66472-4), LF Water 7 11062020 (320-66472-6), (LCS 320-432333/2-A), (LCS 320-432348/2-A), (LCSD 320-432333/3-A), (LCSD 320-432348/3-A), (MB 320-432333/1-A) and (MB 320-432348/1-A)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-4:2 FTS in the following sample: LF Water 7 11062020 (320-66472-6). This IDA is not actually used to quantify any target analyte in this analysis and is just used as a comparison for the POST oxidation analysis.

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

Organic Prep

Method TOP Post Prep: Due to the matrix, the initial volume used for the following samples deviated from the standard procedure: LF Water 4 11062020 (320-66472-4) and LF Water 7 11062020 (320-66472-6). The reporting limits (RLs) have been adjusted proportionately.

Method TOP Pre - Prep: Due to the matrix, the initial volume used for the following samples deviated from the standard procedure: LF Water 4 11062020 (320-66472-4) and LF Water 7 11062020 (320-66472-6). 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.

VOA Prep

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Client Sample ID: LF Water 4 11062020

Lab Sample ID: 320-66472-4

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	8.9		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluoropentanoic acid (PFPeA)			5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	15		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	5.2		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluorooctanoic acid (PFOA)	5.0		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluorobutanoic acid (PFBA)	7	B	5.0		ng/L	1		537 (modified)	Post-Treatment
Perfluoropentanoic acid (PFPeA)	31		5.0		ng/L	1		537 (modified)	Post-Treatment
Perfluorohexanoic acid (PFHxA)	18		5.0		ng/L	1		537 (modified)	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	5.1		5.0		ng/L	1		537 (modified)	Post-Treatment
PFBA	18				ng/L	1		Total PFCA-Dif	Total/NA
PFHpA	.00				ng/L	1		Total PFCA-Dif	Total/NA
PFHxA	.9				ng/L	1		Total PFCA-Dif	Total/NA
PFNA	.00				ng/L	1		Total PFCA-Dif	Total/NA
PFOA	.00				ng/L	1		Total PFCA-Dif	Total/NA
PFPA	.5				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	1				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA					ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	81				ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: LF Water 7 11062020

Lab Sample ID: 320-66472-6

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluoropentanoic acid (PFPeA)	14		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	11		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	9.7		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluorooctanoic acid (PFOA)	5.8		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	96		5.0		ng/L	1		537 (modified)	Pre-Treatment
Perfluorobutanoic acid (PFBA)	58	B	5.0		ng/L	1		537 (modified)	Post-Treatment
Perfluoropentanoic acid (PFPeA)	16		5.0		ng/L	1		537 (modified)	Post-Treatment
Perfluorohexanoic acid (PFHxA)	13		5.0		ng/L	1		537 (modified)	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	9.6		5.0		ng/L	1		537 (modified)	Post-Treatment
Perfluorooctanoic acid (PFOA)	.1		5.0		ng/L	1		537 (modified)	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	93		5.0		ng/L	1		537 (modified)	Post-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Client Sample ID: LF Water 7 11062020 (Continued)

Lab Sample ID: 320-66472-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
PFBA	37				ng/L	1		Total PFCA-Dif	Total/NA
PFHpA	.00				ng/L	1		Total PFCA-Dif	Total/NA
PFHxA	1.7				ng/L	1		Total PFCA-Dif	Total/NA
PFNA	.00				ng/L	1		Total PFCA-Dif	Total/NA
PFOA	.29				ng/L	1		Total PFCA-Dif	Total/NA
PFPA	1.4				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	1				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA					ng/L	1		Total PFCA-Sum	Pre-Treatme nt
Total PFCA	100				ng/L	1		Total PFCA-Sum	Post-Treatme nt

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Client Sample ID: LF Water 4 11062020

Lab Sample ID: 320-66472-4

Date Collected: 11/06/20 11:40

Matrix: W ter

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances - Pre-Treatment

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.9		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluoropentanoic acid (PFPeA)	26		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorohexanoic acid (PFHxA)	15		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluoroheptanoic acid (PFHpA)	5.2		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorooctanoic acid (PFOA)	5.0		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorononanoic acid (PFNA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorodecanoic acid (PFDA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluoroundecanoic acid (PFUnA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorododecanoic acid (PFDoA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorotridecanoic acid (PFTriA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorotetradecanoic acid (PFTeA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorobutanesulfonic acid (PFBS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorohexanesulfonic acid (PFHxS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorooctanesulfonic acid (PFOS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorodecanesulfonic acid (PFDS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
Perfluorooctanesulfonamide (FOSA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		50		ng/L		11/16/20 18:43	11/18/20 11:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		50		ng/L		11/16/20 18:43	11/18/20 11:48	1
:2 FTS	ND		50		ng/L		11/16/20 18:43	11/18/20 11:48	1
8:2 FTS	ND		50		ng/L		11/16/20 18:43	11/18/20 11:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		150	11/16/20 18:43	11/18/20 11:48	1
13C5 PFPeA	114		150	11/16/20 18:43	11/18/20 11:48	1
13C2 PFHxA	110		150	11/16/20 18:43	11/18/20 11:48	1
13C4 PFHpA	119		150	11/16/20 18:43	11/18/20 11:48	1
13C4 PFOA	98		150	11/16/20 18:43	11/18/20 11:48	1
13C5 PFNA	104		150	11/16/20 18:43	11/18/20 11:48	1
13C2 PFDA	97		150	11/16/20 18:43	11/18/20 11:48	1
13C2 PFUnA	93		150	11/16/20 18:43	11/18/20 11:48	1
13C2 PFDoA	82		150	11/16/20 18:43	11/18/20 11:48	1
13C2 PFTeDA	101		150	11/16/20 18:43	11/18/20 11:48	1
13C3 PFBS	102		150	11/16/20 18:43	11/18/20 11:48	1
18O2 PFHxS	112		150	11/16/20 18:43	11/18/20 11:48	1
13C4 PFOS	111		150	11/16/20 18:43	11/18/20 11:48	1
13C8 FOSA	111		150	11/16/20 18:43	11/18/20 11:48	1
d3-NMeFOSAA	83		150	11/16/20 18:43	11/18/20 11:48	1
NEtFOSAA	85		150	11/16/20 18:43	11/18/20 11:48	1
M2-6:2 FTS	134		150	11/16/20 18:43	11/18/20 11:48	1
M2-8:2 FTS	131		150	11/16/20 18:43	11/18/20 11:48	1
M2-4:2 FTS	146		150	11/16/20 18:43	11/18/20 11:48	1

Method: 537 (modified) - Fluorinated Alkyl Substances - Post-Treatment

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	27	B	5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluoropentanoic acid (PFPeA)	31		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorohexanoic acid (PFHxA)	18		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Client Sample ID: LF Water 4 11062020

Lab Sample ID: 320-66472-4

Date Collected: 11/06/20 11:40

Matrix: W ter

Date Received: 11/07/20 09:25

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	5.1		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorooctanoic acid (PFOA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorononanoic acid (PFNA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorodecanoic acid (PFDA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluoroundecanoic acid (PFUnA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorododecanoic acid (PFDoA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorotridecanoic acid (PFTrIA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorobutanesulfonic acid (PFBS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorohexanesulfonic acid (PFHxS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorooctanesulfonic acid (PFOS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
Perfluorooctanesulfonamide (FOSA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		50		ng/L		11/16/20 18:54	11/18/20 13:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		50		ng/L		11/16/20 18:54	11/18/20 13:12	1
:2 FTS	ND		50		ng/L		11/16/20 18:54	11/18/20 13:12	1
8:2 FTS	ND		50		ng/L		11/16/20 18:54	11/18/20 13:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	11		150	11/16/20 18:54	11/18/20 13:12	1
13C5 PFPeA	118		150	11/16/20 18:54	11/18/20 13:12	1
13C2 PFHxA	109		150	11/16/20 18:54	11/18/20 13:12	1
13C4 PFHpA	123		150	11/16/20 18:54	11/18/20 13:12	1
13C4 PFOA	102		150	11/16/20 18:54	11/18/20 13:12	1
13C5 PFNA	102		150	11/16/20 18:54	11/18/20 13:12	1
13C2 PFDA	103		150	11/16/20 18:54	11/18/20 13:12	1
13C2 PFUnA	100		150	11/16/20 18:54	11/18/20 13:12	1
13C2 PFDoA	99		150	11/16/20 18:54	11/18/20 13:12	1
13C2 PFTeDA	86		150	11/16/20 18:54	11/18/20 13:12	1
13C3 PFBS	106		150	11/16/20 18:54	11/18/20 13:12	1
18O2 PFHxS	111		150	11/16/20 18:54	11/18/20 13:12	1
13C4 PFOS	110		150	11/16/20 18:54	11/18/20 13:12	1
13C8 FOSA	111		150	11/16/20 18:54	11/18/20 13:12	1
d3-NMeFOSAA	88		150	11/16/20 18:54	11/18/20 13:12	1
NEtFOSAA	91		150	11/16/20 18:54	11/18/20 13:12	1
M2-6:2 FTS	128		150	11/16/20 18:54	11/18/20 13:12	1
M2-8:2 FTS	137		150	11/16/20 18:54	11/18/20 13:12	1
M2-4:2 FTS			10	11/16/20 18:54	11/18/20 13:12	1

Method: Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
PFBA	18				ng/L			11/22/20 06:34	1
PFHpA	0.00				ng/L			11/22/20 06:34	1
PFHxA	2.9				ng/L			11/22/20 06:34	1
PFNA	0.00				ng/L			11/22/20 06:34	1
PFOA	0.00				ng/L			11/22/20 06:34	1
PFPA	4.5				ng/L			11/22/20 06:34	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Client Sample ID: LF Water 4 11062020

Lab Sample ID: 320-66472-4

Date Collected: 11/06/20 11:40

Matrix: W ter

Date Received: 11/07/20 09:25

Method: Total PFCA-Dif - Total PFCA (Treatment Difference) (Continued)

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	21				ng/L			11/22/20 06:34	1

Method: Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	60				ng/L			11/22/20 06:30	1

Method: Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	81				ng/L			11/22/20 06:32	1

Client Sample ID: LF Water 7 11062020

Lab Sample ID: 320-66472-6

Date Collected: 11/06/20 12:15

Matrix: W ter

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances - Pre-Treatment

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	21		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluoropentanoic acid (PFPeA)	14		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorohexanoic acid (PFHxA)	11		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluoroheptanoic acid (PFHpA)	9.7		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorooctanoic acid (PFOA)	5.8		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorononanoic acid (PFNA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorodecanoic acid (PFDA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluoroundecanoic acid (PFUnA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorododecanoic acid (PFDoA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorotridecanoic acid (PFTriA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorobutanesulfonic acid (PFBS)	96		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
Perfluorooctanesulfonamide (FOSA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		50		ng/L		11/16/20 18:43	11/18/20 11:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		50		ng/L		11/16/20 18:43	11/18/20 11:58	1
:2 FTS	ND		50		ng/L		11/16/20 18:43	11/18/20 11:58	1
8:2 FTS	ND		50		ng/L		11/16/20 18:43	11/18/20 11:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98		150	11/16/20 18:43	11/18/20 11:58	1
13C5 PFPeA	113		150	11/16/20 18:43	11/18/20 11:58	1
13C2 PFHxA	105		150	11/16/20 18:43	11/18/20 11:58	1
13C4 PFHpA	119		150	11/16/20 18:43	11/18/20 11:58	1
13C4 PFOA	101		150	11/16/20 18:43	11/18/20 11:58	1
13C5 PFNA	100		150	11/16/20 18:43	11/18/20 11:58	1
13C2 PFDA	95		150	11/16/20 18:43	11/18/20 11:58	1
13C2 PFUnA	91		150	11/16/20 18:43	11/18/20 11:58	1
13C2 PFDoA	85		150	11/16/20 18:43	11/18/20 11:58	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Client Sample ID: LF Water 7 11062020

Lab Sample ID: 320-66472-6

Date Collected: 11/06/20 12:15

Matrix: Water

Date Received: 11/07/20 09:25

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	65		150	11/16/20 18:43	11/18/20 11:58	1
13C3 PFBS	99		150	11/16/20 18:43	11/18/20 11:58	1
18O2 PFHxS	108		150	11/16/20 18:43	11/18/20 11:58	1
13C4 PFOS	107		150	11/16/20 18:43	11/18/20 11:58	1
13C8 FOSA	111		150	11/16/20 18:43	11/18/20 11:58	1
d3-NMeFOSAA	77		150	11/16/20 18:43	11/18/20 11:58	1
NEtFOSAA	80		150	11/16/20 18:43	11/18/20 11:58	1
M2-6:2 FTS	136		150	11/16/20 18:43	11/18/20 11:58	1
M2-8:2 FTS	128		150	11/16/20 18:43	11/18/20 11:58	1
M2-4:2 FTS	153	*5	150	11/16/20 18:43	11/18/20 11:58	1

Method: 537 (modified) - Fluorinated Alkyl Substances - Post-Treatment

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	58	B	5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluoropentanoic acid (PFPeA)	16		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorohexanoic acid (PFHxA)	13		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluoroheptanoic acid (PFHpA)	9.6		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorooctanoic acid (PFOA)	6.1		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorononanoic acid (PFNA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorodecanoic acid (PFDA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluoroundecanoic acid (PFUnA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorododecanoic acid (PFDoA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorotridecanoic acid (PFTriA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorobutanesulfonic acid (PFBS)	93		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorohexanesulfonic acid (PFHxS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorodecanesulfonic acid (PFDS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
Perfluorooctanesulfonamide (FOSA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 13:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		50		ng/L		11/16/20 18:54	11/18/20 13:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		50		ng/L		11/16/20 18:54	11/18/20 13:21	1
:2 FTS	ND		50		ng/L		11/16/20 18:54	11/18/20 13:21	1
8:2 FTS	ND		50		ng/L		11/16/20 18:54	11/18/20 13:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	105		150				11/16/20 18:54	11/18/20 13:21	1
13C5 PFPeA	112		150				11/16/20 18:54	11/18/20 13:21	1
13C2 PFHxA	110		150				11/16/20 18:54	11/18/20 13:21	1
13C4 PFHpA	120		150				11/16/20 18:54	11/18/20 13:21	1
13C4 PFOA	101		150				11/16/20 18:54	11/18/20 13:21	1
13C5 PFNA	102		150				11/16/20 18:54	11/18/20 13:21	1
13C2 PFDA	91		150				11/16/20 18:54	11/18/20 13:21	1
13C2 PFUnA	98		150				11/16/20 18:54	11/18/20 13:21	1
13C2 PFDoA	79		150				11/16/20 18:54	11/18/20 13:21	1
13C2 PFTeDA	82		150				11/16/20 18:54	11/18/20 13:21	1
13C3 PFBS	100		150				11/16/20 18:54	11/18/20 13:21	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Client Sample ID: LF Water 7 11062020

Lab Sample ID: 320-66472-6

Date Collected: 11/06/20 12:15

Matrix: W ter

Date Received: 11/07/20 09:25

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	109		150	11/16/20 18:54	11/18/20 13:21	1
13C4 PFOS	106		150	11/16/20 18:54	11/18/20 13:21	1
13C8 FOSA	111		150	11/16/20 18:54	11/18/20 13:21	1
d3-NMeFOSAA	88		150	11/16/20 18:54	11/18/20 13:21	1
NEtFOSAA	87		150	11/16/20 18:54	11/18/20 13:21	1
M2-6:2 FTS	131		150	11/16/20 18:54	11/18/20 13:21	1
M2-8:2 FTS	134		150	11/16/20 18:54	11/18/20 13:21	1
M2-4:2 FTS			10	11/16/20 18:54	11/18/20 13:21	1

Method: Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
PFBA	37				ng/L			11/22/20 06:34	1
PFHpA	0.00				ng/L			11/22/20 06:34	1
PFHxA	1.7				ng/L			11/22/20 06:34	1
PFNA	0.00				ng/L			11/22/20 06:34	1
PFOA	0.29				ng/L			11/22/20 06:34	1
PFPA	1.4				ng/L			11/22/20 06:34	1
Total PFCA	41				ng/L			11/22/20 06:34	1

Method: Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	62				ng/L			11/22/20 06:30	1

Method: Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	100				ng/L			11/22/20 06:32	1

Total Oxidation Precursors

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

TestAmerica Job ID: 320-66472-2

Client Sample ID: LF Water 4 11062020

Lab Sample ID: 320-66472-4
Matrix: Water

Analyte	e-Treatment Method			Post-Treatment Method			Difference ¹	
	537 (modified)			537 (modified)				
	Result	Qualifier	Unit	Result	Qualifier	Unit	Result	Unit
Perfluorobutanoic acid (PFBA)	8.9		ng/L	27		ng/L	18	ng/L
Perfluoropentanoic acid (PFPeA)	26		ng/L	31		ng/L	4.5	ng/L
Perfluorohexanoic acid (PFHxA)	15		ng/L	18		ng/L	2.9	ng/L
Perfluoroheptanoic acid (PFHpA)	5.2		ng/L	5.1		ng/L	0.00	ng/L
Perfluorooctanoic acid (PFOA)	5.0		ng/L	ND		ng/L	0.00	ng/L
Perfluorononanoic acid (PFNA)	ND		ng/L	ND		ng/L	0.00	ng/L
Total PFCA	60		ng/L	81		ng/L	21	ng/L

Client Sample ID: LF Water 7 11062020

Lab Sample ID: 320-66472-6
Matrix: Water

Analyte	e-Treatment Method			Post-Treatment Method			Difference ¹	
	537 (modified)			537 (modified)				
	Result	Qualifier	Unit	Result	Qualifier	Unit	Result	Unit
Perfluorobutanoic acid (PFBA)	21		ng/L	58		ng/L	37	ng/L
Perfluoropentanoic acid (PFPeA)	14		ng/L	16		ng/L	1.4	ng/L
Perfluorohexanoic acid (PFHxA)	11		ng/L	13		ng/L	1.7	ng/L
Perfluoroheptanoic acid (PFHpA)	9.7		ng/L	9.6		ng/L	0.00	ng/L
Perfluorooctanoic acid (PFOA)	5.8		ng/L	6.1		ng/L	0.29	ng/L
Perfluorononanoic acid (PFNA)	ND		ng/L	ND		ng/L	0.00	ng/L
Total PFCA	62		ng/L	100		ng/L	41	ng/L

¹ Difference = Post-Treatment - Pre-Treatment

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Pre-Treatment

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-66472-4	LF Water 4 11062020	102	114	110	119	98	104	97	93
320-66472-6	LF Water 7 11062020	98	113	105	119	101	100	95	91
LCS 320-432333/2-A	Lab Control Sample	114	124	108	121	103	106	96	95
LCSD 320-432333/3-A	Lab Control Sample Dup	111	120	105	118	101	99	101	89
MB 320-432333/1-A	Method Blank	107	116	102	11	96	9	9	93

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFO (25-150)	d5NEFO (25-150)
320-66472-4	LF Water 4 11062020	82	101	102	112	111	111	83	85
320-66472-6	LF Water 7 11062020	85	5	99	108	107	111	77	80
LCS 320-432333/2-A	Lab Control Sample	87	80	109	109	112	104	90	92
LCSD 320-432333/3-A	Lab Control Sample Dup	93	95	105	110	107	105	90	88
MB 320-432333/1-A	Method Blank	80	101	101	105	104	99	86	85

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)	M242FTS (25-150)
320-66472-4	LF Water 4 11062020	134	131	146
320-66472-6	LF Water 7 11062020	136	128	153 *5
LCS 320-432333/2-A	Lab Control Sample	125	125	129
LCSD 320-432333/3-A	Lab Control Sample Dup	119	1 5	119
MB 320-432333/1-A	Method Blank	115	11	11

rrrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFO = d3-NMeFOSAA
d5NEFO = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
M242FTS = M2-4:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Post-Treatment

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-66472-4	LF Water 4 11062020	110	118	109	123	102	102	103	100

Eurofins TestAmerica, Sacramento

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 320-66472-2

Project/Site: Norlite - Cohoes #401041

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

Matrix: Water

Prep Type: Post-Treatment

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-66472-6	LF Water 7 11062020	105	112	110	120	101	102	91	98
LCS 320-432348/2-A	Lab Control Sample	106	120	106	121	102	100	94	88
LCSD 320-432348/3-A	Lab Control Sample Dup	114	124	111	126	104	105	104	93
MB 320-432348/1-A	Method Blank	110	125	108	120	105	105	100	94
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFO (25-150)	d5NEFO (25-150)
320-66472-4	LF Water 4 11062020	99	86	106	111	110	111	88	91
320-66472-6	LF Water 7 11062020	79	82	100	109	106	111	88	87
LCS 320-432348/2-A	Lab Control Sample	86	92	104	113	106	104	89	91
LCSD 320-432348/3-A	Lab Control Sample Dup	101	84	108	114	115	110	94	96
MB 320-432348/1-A	Method Blank	90	83	109	114	113	106	91	93
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)	M242FTS (0-10)					
320-66472-4	LF Water 4 11062020	128	137						
320-66472-6	LF Water 7 11062020	131	134						
LCS 320-432348/2-A	Lab Control Sample	118	1						
LCSD 320-432348/3-A	Lab Control Sample Dup	123	133						
MB 320-432348/1-A	Method Blank	122	121						

rogate Legend

PFBA = 13C4 PFBA
 PFPeA = 13C5 PFPeA
 PFHxA = 13C2 PFHxA
 C4PFHA = 13C4 PFHpA
 PFOA = 13C4 PFOA
 PFNA = 13C5 PFNA
 PFDA = 13C2 PFDA
 PFUnA = 13C2 PFUnA
 PFDaA = 13C2 PFDaA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 PFHxS = 18O2 PFHxS
 PFOS = 13C4 PFOS
 PFOSA = 13C8 FOSA
 d3NMFO = d3-NMeFOSAA
 d5NEFO = d5-NEtFOSAA
 M262FTS = M2-6:2 FTS
 M282FTS = M2-8:2 FTS
 M242FTS = M2-4:2 FTS

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-432333/1-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Method Blank

Prep Type: Pre-Treatment

Prep Batch: 432333

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluoropentanoic acid (PFPeA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorohexanoic acid (PFHxA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluoroheptanoic acid (PFHpA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorooctanoic acid (PFOA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorononanoic acid (PFNA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorodecanoic acid (PFDA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluoroundecanoic acid (PFUnA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorododecanoic acid (PFDoA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorotridecanoic acid (PFTriA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorobutanesulfonic acid (PFBS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorodecanesulfonic acid (PFDS)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
Perfluorooctanesulfonamide (FOSA)	ND		5.0		ng/L		11/16/20 18:43	11/18/20 11:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		50		ng/L		11/16/20 18:43	11/18/20 11:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		50		ng/L		11/16/20 18:43	11/18/20 11:21	1
:2 FTS	ND		50		ng/L		11/16/20 18:43	11/18/20 11:21	1
8:2 FTS	ND		50		ng/L		11/16/20 18:43	11/18/20 11:21	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA	107		- 150	11/16/20 18:43	11/18/20 11:21	1
13C5 PFPeA	116		- 150	11/16/20 18:43	11/18/20 11:21	1
13C2 PFHxA	102		- 150	11/16/20 18:43	11/18/20 11:21	1
13C4 PFHpA	112		- 150	11/16/20 18:43	11/18/20 11:21	1
13C4 PFOA	96		- 150	11/16/20 18:43	11/18/20 11:21	1
13C5 PFNA	96		- 150	11/16/20 18:43	11/18/20 11:21	1
13C2 PFDA	96		- 150	11/16/20 18:43	11/18/20 11:21	1
13C2 PFUnA	93		- 150	11/16/20 18:43	11/18/20 11:21	1
13C2 PFDoA	80		- 150	11/16/20 18:43	11/18/20 11:21	1
13C2 PFTeDA	101		- 150	11/16/20 18:43	11/18/20 11:21	1
13C3 PFBS	101		- 150	11/16/20 18:43	11/18/20 11:21	1
18O2 PFHxS	105		- 150	11/16/20 18:43	11/18/20 11:21	1
13C4 PFOS	104		- 150	11/16/20 18:43	11/18/20 11:21	1
13C8 FOSA	99		- 150	11/16/20 18:43	11/18/20 11:21	1
d3-NMeFOSAA	86		- 150	11/16/20 18:43	11/18/20 11:21	1
-NEtFOSAA	85		- 150	11/16/20 18:43	11/18/20 11:21	1
M2-6:2 FTS	115		- 150	11/16/20 18:43	11/18/20 11:21	1
M2-8:2 FTS	112		- 150	11/16/20 18:43	11/18/20 11:21	1
M2-4:2 FTS	116		- 150	11/16/20 18:43	11/18/20 11:21	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

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

Lab Sample ID: LCS 320-432333/2-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 432333

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	100	108		ng/L		108	76 136
Perfluoropentanoic acid (PFPeA)	100	85.6		ng/L		86	71 131
Perfluorohexanoic acid (PFHxA)	100	104		ng/L		104	73 133
Perfluoroheptanoic acid (PFHpA)	100	89.8		ng/L		90	72 132
Perfluorooctanoic acid (PFOA)	100	103		ng/L		103	70 130
Perfluorononanoic acid (PFNA)	100	100		ng/L		100	75 135
Perfluorodecanoic acid (PFDA)	100	114		ng/L		114	76 136
Perfluoroundecanoic acid (PFUnA)	100	112		ng/L		112	8 128
Perfluorododecanoic acid (PFDoA)	100	118		ng/L		118	71 131
Perfluorotridecanoic acid (PFTriA)	100	104		ng/L		104	71 131
Perfluorotetradecanoic acid (PFTeA)	100	110		ng/L		110	70 130
Perfluorobutanesulfonic acid (PFBS)	88.4	93.3		ng/L		106	7 127
Perfluorohexanesulfonic acid (PFHxS)	91.0	91.5		ng/L		101	59 119
Perfluoroheptanesulfonic Acid (PFHpS)	95.2	101		ng/L		106	76 136
Perfluorooctanesulfonic acid (PFOS)	92.8	97.6		ng/L		105	70 130
Perfluorodecanesulfonic acid (PFDS)	96.4	97.6		ng/L		101	71 131
Perfluorooctanesulfonamide (FOSA)	100	104		ng/L		104	73 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	109		ng/L		109	76 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	101		ng/L		101	76 136
:2 FTS	94.8	81.8		ng/L		86	59 175
8:2 FTS	95.8	92.4		ng/L		96	75 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	114		- 150
13C5 PFPeA	124		- 150
13C2 PFHxA	108		- 150
13C4 PFHpA	121		- 150
13C4 PFOA	103		- 150
13C5 PFNA	106		- 150
13C2 PFDA	96		- 150
13C2 PFUnA	95		- 150
13C2 PFDoA	87		- 150
13C2 PFTeDA	80		- 150
13C3 PFBS	109		- 150
18O2 PFHxS	109		- 150
13C4 PFOS	11		- 150
13C8 FOSA	104		- 150
3-NMeFOSAA	90		- 150
-NEtFOSAA	92		- 150

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

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

Lab Sample ID: LCS 320-432333/2-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 432333

<i>Isotope Dilution</i>	<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
M2-6:2 FTS	125		- 150
M2-8:2 FTS	125		- 150
M2-4:2 FTS	129		- 150

Lab Sample ID: LCSD 320-432333/3-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Lab Control Sample Dup

Prep Type: Pre-Treatment

Prep Batch: 432333

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD It</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>PD</i>	<i>PD Limit</i>
Perfluorobutanoic acid (PFBA)	100	108		ng/L		108	76 136		3
Perfluoropentanoic acid (PFPeA)	100	88.3		ng/L		88	71 131	3	30
Perfluorohexanoic acid (PFHxA)	100	102		ng/L		102	73 133	1	30
Perfluoroheptanoic acid (PFHpA)	100	92.2		ng/L		92	72 132	3	30
Perfluorooctanoic acid (PFOA)	100	108		ng/L		108	70 130		30
Perfluorononanoic acid (PFNA)	100	103		ng/L		103	75 135	3	30
Perfluorodecanoic acid (PFDA)	100	104		ng/L		104	76 136	9	30
Perfluoroundecanoic acid (PFUnA)	100	124		ng/L		124	8 128	11	30
Perfluorododecanoic acid (PFDoA)	100	98.7		ng/L		99	71 131	18	30
Perfluorotridecanoic acid (PFTriA)	100	102		ng/L		102	71 131	1	30
Perfluorotetradecanoic acid (PFTeA)	100	93.2		ng/L		93	70 130	16	30
Perfluorobutanesulfonic acid (PFBS)	88.4	94.0		ng/L		106	7 127	1	30
Perfluorohexanesulfonic acid (PFHxS)	91.0	90.5		ng/L		99	59 119	1	3
Perfluoroheptanesulfonic Acid (PFHpS)	95.2	105		ng/L		111	76 136		30
Perfluorooctanesulfonic acid (PFOS)	92.8	99.0		ng/L		107	70 130	1	30
Perfluorodecanesulfonic acid (PFDS)	96.4	103		ng/L		107	71 131		30
Perfluorooctanesulfonamide (FOSA)	100	102		ng/L		102	73 133		30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	111		ng/L		111	76 136	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	106		ng/L		106	76 136	5	30
:2 FTS	94.8	88.2		ng/L		93	59 175	7	30
8:2 FTS	95.8	97.0		ng/L		101	75 135	5	30

<i>Isotope Dilution</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
13C4 PFBA	111		- 150
13C5 PFPeA	120		- 150
13C2 PFHxA	105		- 150
13C4 PFHpA	118		- 150
13C4 PFOA	101		- 150
13C5 PFNA	99		- 150
13C2 PFDA	101		- 150
13C2 PFUnA	89		- 150

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

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

Lab Sample ID: LCSD 320-432333/3-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Lab Control Sample Dup

Prep Type: Pre-Treatment

Prep Batch: 432333

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFDoA	93		- 150
13C2 PFTeDA	95		- 150
13C3 PFBS	105		- 150
18O2 PFHxS	11		- 150
13C4 PFOS	107		- 150
13C8 FOSA	105		- 150
d3-NMeFOSAA	90		- 150
-NEtFOSAA	88		- 150
M2-6:2 FTS	119		- 150
M2-8:2 FTS	125		- 150
M2-4:2 FTS	119		- 150

Lab Sample ID: MB 320-432348/1-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Method Blank

Prep Type: Post-Treatment

Prep Batch: 432348

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	11.3		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluoropentanoic acid (PFPeA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorohexanoic acid (PFHxA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluoroheptanoic acid (PFHpA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorooctanoic acid (PFOA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorononanoic acid (PFNA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorodecanoic acid (PFDA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluoroundecanoic acid (PFUnA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorododecanoic acid (PFDoA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorotridecanoic acid (PFTriA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorotetradecanoic acid (PFTeA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorobutanesulfonic acid (PFBS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorohexanesulfonic acid (PFHxS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorooctanesulfonic acid (PFOS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
Perfluorooctanesulfonamide (FOSA)	ND		5.0		ng/L		11/16/20 18:54	11/18/20 12:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		50		ng/L		11/16/20 18:54	11/18/20 12:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		50		ng/L		11/16/20 18:54	11/18/20 12:44	1
:2 FTS	ND		50		ng/L		11/16/20 18:54	11/18/20 12:44	1
8:2 FTS	ND		50		ng/L		11/16/20 18:54	11/18/20 12:44	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA	11		- 150	11/16/20 18:54	11/18/20 12:44	1
13C5 PFPeA	125		- 150	11/16/20 18:54	11/18/20 12:44	1
13C2 PFHxA	108		- 150	11/16/20 18:54	11/18/20 12:44	1
13C4 PFHpA	120		- 150	11/16/20 18:54	11/18/20 12:44	1
13C4 PFOA	105		- 150	11/16/20 18:54	11/18/20 12:44	1
13C5 PFNA	105		- 150	11/16/20 18:54	11/18/20 12:44	1
13C2 PFDA	100		- 150	11/16/20 18:54	11/18/20 12:44	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

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

Lab Sample ID: MB 320-432348/1-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Method Blank

Prep Type: Post-Treatment

Prep Batch: 432348

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C2 PFUnA	94		- 150	11/16/20 18:54	11/18/20 12:44	1
13C2 PFDoA	90		- 150	11/16/20 18:54	11/18/20 12:44	1
13C2 PFTeDA	83		- 150	11/16/20 18:54	11/18/20 12:44	1
13C3 PFBS	109		- 150	11/16/20 18:54	11/18/20 12:44	1
18O2 PFHxS	114		- 150	11/16/20 18:54	11/18/20 12:44	1
13C4 PFOS	113		- 150	11/16/20 18:54	11/18/20 12:44	1
13C8 FOSA	106		- 150	11/16/20 18:54	11/18/20 12:44	1
d3-NMeFOSAA	91		- 150	11/16/20 18:54	11/18/20 12:44	1
-NEtFOSAA	93		- 150	11/16/20 18:54	11/18/20 12:44	1
M2-6:2 FTS	122		- 150	11/16/20 18:54	11/18/20 12:44	1
M2-8:2 FTS	121		- 150	11/16/20 18:54	11/18/20 12:44	1
M2-4:2 FTS			- 10	11/16/20 18:54	11/18/20 12:44	1

Lab Sample ID: LCS 320-432348/2-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Lab Control Sample

Prep Type: Post-Treatment

Prep Batch: 432348

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	100	129		ng/L		129	93 153
Perfluoropentanoic acid (PFPeA)	100	101		ng/L		101	85 145
Perfluorohexanoic acid (PFHxA)	100	114		ng/L		114	81 141
Perfluoroheptanoic acid (PFHpA)	100	117		ng/L		117	104 171
Perfluorooctanoic acid (PFOA)	100	322		ng/L		322	158 54
Perfluorononanoic acid (PFNA)	100	119		ng/L		119	126
Perfluorodecanoic acid (PFDA)	100	109		ng/L		109	5 125
Perfluoroundecanoic acid (PFUnA)	100	108		ng/L		108	57 117
Perfluorododecanoic acid (PFDoA)	100	97.2		ng/L		97	126
Perfluorotridecanoic acid (PFTriA)	100	95.8		ng/L		96	5 136
Perfluorotetradecanoic acid (PFTeA)	100	104		ng/L		104	3 123
Perfluorobutanesulfonic acid (PFBS)	88.4	93.5		ng/L		106	75 135
Perfluorohexanesulfonic acid (PFHxS)	91.0	87.0		ng/L		96	124
Perfluoroheptanesulfonic Acid (PFHpS)	95.2	97.1		ng/L		102	70 131
Perfluorooctanesulfonic acid (PFOS)	92.8	99.6		ng/L		107	8 128
Perfluorodecanesulfonic acid (PFDS)	96.4	90.6		ng/L		94	126
Perfluorooctanesulfonamide (FOSA)	100	ND		ng/L			10
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	ND		ng/L			10
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	ND		ng/L			10
:2 FTS	94.8	ND		ng/L			10
8:2 FTS	95.8	ND		ng/L			10

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

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

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	106		- 150
13C5 PFPeA	120		- 150
13C2 PFHxA	106		- 150
13C4 PFHpA	121		- 150
13C4 PFOA	102		- 150
13C5 PFNA	100		- 150
13C2 PFDA	94		- 150
13C2 PFUnA	88		- 150
13C2 PFDoA	86		- 150
13C2 PFTeDA	92		- 150
13C3 PFBS	104		- 150
18O2 PFHxS	113		- 150
13C4 PFOS	106		- 150
13C8 FOSA	104		- 150
d3-NMeFOSAA	89		- 150
-NEtFOSAA	91		- 150
M2-6:2 FTS	118		- 150
M2-8:2 FTS	122		- 150
M2-4:2 FTS			- 10

Lab Sample ID: LCSD 320-432348/3-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Lab Control Sample Dup

Prep Type: Post-Treatment

Prep Batch: 432348

Analyte	Spike Added	LCSD It	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		PD	PD Limit
Perfluorobutanoic acid (PFBA)	100	124		ng/L		124	93	153		3
Perfluoropentanoic acid (PFPeA)	100	103		ng/L		103	85	145		30
Perfluorohexanoic acid (PFHxA)	100	112		ng/L		112	81	141		30
Perfluoroheptanoic acid (PFHpA)	100	127		ng/L		127	104	171	8	30
Perfluorooctanoic acid (PFOA)	100	9		ng/L		9	158	54	18	30
Perfluorononanoic acid (PFNA)	100	120		ng/L		120		126	1	30
Perfluorodecanoic acid (PFDA)	100	106		ng/L		106	5	125	3	30
Perfluoroundecanoic acid (PFUnA)	100	111		ng/L		111	57	117	3	3
Perfluorododecanoic acid (PFDoA)	100	90.2		ng/L		90		126	8	30
Perfluorotridecanoic acid (PFTriA)	100	95.7		ng/L		96	5	136		30
Perfluorotetradecanoic acid (PFTeA)	100	95.7		ng/L		96	3	123	9	30
Perfluorobutanesulfonic acid (PFBS)	88.4	91.5		ng/L		104	75	135		30
Perfluorohexanesulfonic acid (PFHxS)	91.0	87.7		ng/L		96		124	1	30
Perfluoroheptanesulfonic Acid (PFHpS)	95.2	96.4		ng/L		101	70	131	1	30
Perfluorooctanesulfonic acid (PFOS)	92.8	92.7		ng/L		100	8	128	7	30
Perfluorodecanesulfonic acid (PFDS)	96.4	86.7		ng/L		90		126		30
Perfluorooctanesulfonamide (FOSA)	100	ND		ng/L				10	NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	ND		ng/L				10	NC	30

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

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

Lab Sample ID: LCSD 320-432348/3-A

Matrix: Water

Analysis Batch: 432909

Client Sample ID: Lab Control Sample Dup

Prep Type: Post-Treatment

Prep Batch: 432348

Analyte	Spike Added	LCSD It	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	PD	PD Limit
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	ND		ng/L			10	NC	30
:2 FTS	94.8	ND		ng/L			10	NC	30
8:2 FTS	95.8	ND		ng/L			10	NC	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
13C4 PFBA	114		- 150						
13C5 PFPeA	124		- 150						
13C2 PFHxA	111		- 150						
13C4 PFHpA	126		- 150						
13C4 PFOA	104		- 150						
13C5 PFNA	105		- 150						
13C2 PFDA	104		- 150						
13C2 PFUnA	93		- 150						
13C2 PFDoA	101		- 150						
13C2 PFTeDA	84		- 150						
13C3 PFBS	108		- 150						
18O2 PFHxS	114		- 150						
13C4 PFOS	11		- 150						
13C8 FOSA	11		- 150						
3-NMeFOSAA	94		- 150						
-NEtFOSAA	96		- 150						
M2-6:2 FTS	123		- 150						
M2-8:2 FTS	133		- 150						
M2-4:2 FTS			- 10						

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

LCMS

Prep Batch: 432333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66472-4	LF Water 4 11062020	Pre-Treatment	Water	TOP Pre - Prep	
320-66472-6	LF Water 7 11062020	Pre-Treatment	Water	TOP Pre - Prep	
MB 320-432333/1-A	Method Blank	Pre-Treatment	Water	TOP Pre - Prep	
LCS 320-432333/2-A	Lab Control Sample	Pre-Treatment	Water	TOP Pre - Prep	
LCSD 320-432333/3-A	Lab Control Sample Dup	Pre-Treatment	Water	TOP Pre - Prep	

Prep Batch: 432348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66472-4	LF Water 4 11062020	Post-Treatment	Water	TOP Post Prep	
320-66472-6	LF Water 7 11062020	Post-Treatment	Water	TOP Post Prep	
MB 320-432348/1-A	Method Blank	Post-Treatment	Water	TOP Post Prep	
LCS 320-432348/2-A	Lab Control Sample	Post-Treatment	Water	TOP Post Prep	
LCSD 320-432348/3-A	Lab Control Sample Dup	Post-Treatment	Water	TOP Post Prep	

Analysis Batch: 432909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66472-4	LF Water 4 11062020	Post-Treatment	Water	537 (modified)	32348
320-66472-4	LF Water 4 11062020	Pre-Treatment	Water	537 (modified)	32333
320-66472-6	LF Water 7 11062020	Post-Treatment	Water	537 (modified)	32348
320-66472-6	LF Water 7 11062020	Pre-Treatment	Water	537 (modified)	32333
MB 320-432333/1-A	Method Blank	Pre-Treatment	Water	537 (modified)	32333
MB 320-432348/1-A	Method Blank	Post-Treatment	Water	537 (modified)	32348
LCS 320-432333/2-A	Lab Control Sample	Pre-Treatment	Water	537 (modified)	32333
LCS 320-432348/2-A	Lab Control Sample	Post-Treatment	Water	537 (modified)	32348
LCSD 320-432333/3-A	Lab Control Sample Dup	Pre-Treatment	Water	537 (modified)	32333
LCSD 320-432348/3-A	Lab Control Sample Dup	Post-Treatment	Water	537 (modified)	32348

Analysis Batch: 434464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66472-4	LF Water 4 11062020	Pre-Treatment	Water	Total PFCA-Sum	
320-66472-6	LF Water 7 11062020	Pre-Treatment	Water	Total PFCA-Sum	

Analysis Batch: 434465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66472-4	LF Water 4 11062020	Post-Treatment	Water	Total PFCA-Sum	
320-66472-6	LF Water 7 11062020	Post-Treatment	Water	Total PFCA-Sum	

Analysis Batch: 434466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66472-4	LF Water 4 11062020	Total/NA	Water	Total PFCA-Dif	
320-66472-6	LF Water 7 11062020	Total/NA	Water	Total PFCA-Dif	

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Client Sample ID: LF Water 4 11062020

Lab Sample ID: 320-66472-4

Date Collected: 11/06/20 11:40

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Post-T eatment	Prep	TOP Post Prep			100.00 mL	10.00 mL	432348	11/16/20 18:54	JER	TAL SAC
Post-T eatment	Analysis	537 (modified)		1			432909	11/18/20 13:12	JRB	TAL SAC
Pre-T eatment	Prep	TOP Pre - Prep			100.00 mL	10.00 mL	432333	11/16/20 18:43	JER	TAL SAC
Pre-T eatment	Analysis	537 (modified)		1			432909	11/18/20 11:48	JRB	TAL SAC
T tal/NA	Analysis	T tal PFCA-Dif		1			434466	11/22/20 06:34	MKW	TAL SAC
Post-T eatment	Analysis	T tal PFCA-Sum		1			434465	11/22/20 06:32	MKW	TAL SAC
Pre-T eatment	Analysis	T tal PFCA-Sum		1			434464	11/22/20 06:30	MKW	TAL SAC

Client Sample ID: LF Water 7 11062020

Lab Sample ID: 320-66472-6

Date Collected: 11/06/20 12:15

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Post-T eatment	Prep	TOP Post Prep			100.00 mL	10.00 mL	432348	11/16/20 18:54	JER	TAL SAC
Post-T eatment	Analysis	537 (modified)		1			432909	11/18/20 13:21	JRB	TAL SAC
Pre-T eatment	Prep	TOP Pre - Prep			100.00 mL	10.00 mL	432333	11/16/20 18:43	JER	TAL SAC
Pre-T eatment	Analysis	537 (modified)		1			432909	11/18/20 11:58	JRB	TAL SAC
T tal/NA	Analysis	T tal PFCA-Dif		1			434466	11/22/20 06:34	MKW	TAL SAC
Post-T eatment	Analysis	T tal PFCA-Sum		1			434465	11/22/20 06:32	MKW	TAL SAC
Pre-T eatment	Analysis	T tal PFCA-Sum		1			434464	11/22/20 06:30	MKW	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
ew k	ELAP	11666	04-01-21
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)	TOP Post Prep	Water	6:2 FTS
537 (modified)	TOP Post Prep	Water	8:2 FTS
537 (modified)	TOP Post Prep	Water	-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	TOP Post Prep	Water	-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	TOP Post Prep	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	TOP Post Prep	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	TOP Post Prep	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	TOP Post Prep	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	TOP Post Prep	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	TOP Post Prep	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	TOP Post Prep	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	TOP Post Prep	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	TOP Post Prep	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	TOP Post Prep	Water	Perfluorononanoic acid (PFNA)
537 (modified)	TOP Post Prep	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	TOP Post Prep	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	TOP Post Prep	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	TOP Post Prep	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	TOP Post Prep	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	TOP Post Prep	Water	Perfluorotridecanoic acid (PFT iA)
537 (modified)	TOP Post Prep	Water	Perfluoroundecanoic acid (PFUnA)
537 (modified)	TOP Pre - Prep	Water	6:2 FTS
537 (modified)	TOP Pre - Prep	Water	8:2 FTS
537 (modified)	TOP Pre - Prep	Water	-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	TOP Pre - Prep	Water	-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	TOP Pre - Prep	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	TOP Pre - Prep	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	TOP Pre - Prep	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	TOP Pre - Prep	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	TOP Pre - Prep	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	TOP Pre - Prep	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	TOP Pre - Prep	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	TOP Pre - Prep	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	TOP Pre - Prep	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	TOP Pre - Prep	Water	Perfluorononanoic acid (PFNA)
537 (modified)	TOP Pre - Prep	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	TOP Pre - Prep	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	TOP Pre - Prep	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	TOP Pre - Prep	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	TOP Pre - Prep	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	TOP Pre - Prep	Water	Perfluorotridecanoic acid (PFT iA)
537 (modified)	TOP Pre - Prep	Water	Perfluoroundecanoic acid (PFUnA)

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

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

Authority	Program	Identification Number	Expiration Date
New York	ELAP	11666	04-01-21
Ttal PFCA-Dif	Water	PFBA	
Ttal PFCA-Dif	Water	PFHpA	
Ttal PFCA-Dif	Water	PFHxA	
Ttal PFCA-Dif	Water	PFNA	
Ttal PFCA-Dif	Water	PFOA	
Ttal PFCA-Dif	Water	PFPA	
Ttal PFCA-Dif	Water	Ttal PFCA	
Ttal PFCA-Sum	Water	Ttal PFCA	

Method Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
Total PFCA-Dif	Total PFCA (Treatment Difference)	TAL SOP	TAL SAC
Total PFCA-Sum	Total PFCA (Summary)	TAL SOP	TAL SAC
TOP Post Prep	Solid-Phase Extraction (SPE)	SW846	TAL SAC
TOP Pre - Prep	Solid-Phase Extraction (SPE)	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66472-2

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-66472-4	LF Water 4 11062020	Water	11/06/20 11:40	11/07/20 09:25	
320-66472-6	LF Water 7 11062020	Water	11/06/20 12:15	11/07/20 09:25	

Eurofins TestAmerica, Sacramento

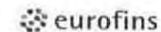
880 Riverside Parkway
West Sacramento, CA 95605

Phone: 916-373-5600 Fax: 916-372-1059

Albany

#224

Chain of Custody Record

Environment Testing
America

Client Information		Sample: <u>Brie Hart</u>		Lab PM: <u>Stone, Judy L</u>		Carrier Tracking No(s):		COC No: <u>480-150125-33367.1</u>	
Client Contact: <u>Lynn Winterberger</u>		Phone:		E-Mail: <u>Judy.Stone@Eurofinset.com</u>				Page: <u>Page 1 of 1</u>	
Company: <u>New York State D.E.C.</u>		Due Date Requested:		Analysis Requested				Job #:	
Address: <u>625 Broadway Division of Environmental Remediation</u>		TAT Requested (days): <u>Standard</u>		Barcode:		320-66472 Chain of Custody		Preservation Codes:	
City: <u>Albany</u>		PO #: <u>Call Out DMM R4 - 401041</u>		Field Filtered Sample (Yes or No)				HCL M - Hexane	
State, Zip: <u>NY, 12233-7014</u>		WO #:		Perform MS/MSD (Yes or No)				NaOH N - None	
Phone: <u>518-402-9267 (Tel)</u>		Project #: <u>48022694</u>		PFC_IDA - TOPS Assay				Zn Acetate O - AsNaO2	
Email: <u>lynn.winterberger@dec.ny.gov</u>		SSOW#:		PFC Standard List (ell)				Nitric Acid P - Na2O4S	
Project Name: <u>Norlite - Cohoes #401041</u>								NaHSO4 Q - Na2SO3	
Site:								MeOH R - Na2S2O3	
								Amchlor S - H2SO4	
								Ascorbic Acid T - TSP Dodecahydrate	
								Ice U - Acetone	
								J - DI Water V - MCAA	
								K - EDTA W - pH 4-5	
								L - EDA Z - other (specify)	
								Other:	
								Special Instructions/Note:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - TOPS Assay	Total Number of Containers
LF Water 2 11/06/2020		11/06/2020	9:40 AM	G	Water				2
LF Water 3 11/06/2020		11/06/2020	10:00 AM	G	Water				2
LF Water 6 11/06/2020		11/06/2020	10:35 AM	G	Solid	X	X		6 MS/MSD
LF Water 4 11/06/2020		11/06/2020	11:49 AM	G	Solid	X	X		6
LF Water 5 11/06/2020		11/06/2020	11:10	G	W				2
LF Water 7 11/06/2020		11/06/2020	12:15	G	W	X	X		6
LF Water 8 11/06/2020		11/06/2020	12:50	G	W	X			2
DUP 11/06/2020		11/06/2020		G	W	X			2
Field Blank 11/06/2020		11/06/2020	1:10 PM	G	W	X			2
Equipment Blank 11/06/2020		11/06/2020	1:05 PM	G	W	X			2
Trip Blank				C	W	X			2
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify) <u>Cat B and EDD</u>		Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <u>Ral Zoch</u>		Date/Time: <u>11/6/2020 14:00</u>		Company: <u>NYSDEC</u>		Received by: <u>Ral Zoch</u>		Date/Time: <u>11/6/20 1400</u>	
Relinquished by: <u>Ral Zoch</u>		Date/Time: <u>11/6/20 1700</u>		Company: <u>Borden</u>		Received by: <u>Ral Zoch</u>		Date/Time: <u>11/7/20 925</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.: <u>1478558</u>		Cooler Temperature(s) °C and Other Remarks: <u>0.1/0.6</u>					

Page 28 of 29

11/23/2020

*M.35mg 2 dashes (-) after LF: water 2 (el) so 11/7th
 - 4 of 4 125ml only 1 dash after water 7 (-) so 11/7th

*2054 125ml only 1 dash after water 4 (-) so 11/7th
 *Date 9/13/20 14 33 11/7/20 11 06 08 07 06 04 03 02 01

10 PFCs Trip Blank so 11/7th

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 320-66472-2

Login Number: 66472

List Source: Eurofins T stAmerica, Sacramento

List Number: 1

Creator: Oropeza, Salvador

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	1428558
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.	False	: No date or time on COC or containers
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	False	Refer to job narrative for details
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any equested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-66473-1

Client Project/Site: Norlite - Cohoes #401041

For:

New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Lynn M Winterberger



Authorized for release by:
11/18/2020 2:41:41 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Table of Contents

Cover Page 1

Table of Contents 2

Definitions/Glossary 3

Case Narrative 4

Detection Summary 5

Client Sample Results 7

Isotope Dilution Summary 14

QC Sample Results 16

QC Association Summary 19

Lab Chronicle 20

Certification Summary 22

Method Summary 23

Sample Summary 24

Chain of Custody 25

Receipt Checklists 26



Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Qualifiers

LCMS

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.

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
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: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

ID: 320-66473-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Narrative
320-66473-1

Receipt

The samples were received on 11/7/2020 9:25 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

LCMS

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

Organic Prep

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFSCW2-Water-11062020

Lab Sample ID: 320-66473-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	.80	J	1.9	.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.64	J	1.9	.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.55	J	1.9	.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.6	J	1.9	.81	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.75	J	1.9	.19	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LFSCW1-Water-11062020

Lab Sample ID: 320-66473-2

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	1.3	J	1.9	.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.2	J	1.9	.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.8	J	1.9	.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.27	J	1.9	.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.58	J	1.9	.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.9	.52	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LFW1-Water-11062020

Lab Sample ID: 320-66473-3

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	1.2	J	1.9	.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.2	J	1.9	.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.73	J	1.9	.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.7	J	1.9	.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.2		1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.9	.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.6	J	1.9	.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LFPCW1-Water-11062020

Lab Sample ID: 320-66473-4

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	14		.7	.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.6		1.9	.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	9.9		1.9	.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.8		1.9	.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.6		1.9	.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.63	J	1.9	.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.7		1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.9	.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.7		1.9	.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LFPCW2-Water-11062020

Lab Sample ID: 320-66473-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	10		.6	.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.5		1.9	.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.6		1.9	.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.2		1.9	.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.5		1.9	.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.80	J	1.9	.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.9		1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.1		1.9	.53	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFPCW2-Water-11062020 (Continued)

Lab Sample ID: 320-66473-5

Analyte	Result	Qualifier	L	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	1		1.9	.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LFPCW3-Water-11062020

Lab Sample ID: 320-66473-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.7		.7	.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.7		1.9	.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.4		1.9	.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.5		1.9	.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.4		1.9	.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.33	J	1.9	.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.9		1.9	.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.9	.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.7		1.9	.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: LFPCW4-Water-11062020

Lab Sample ID: 320-66473-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.8		.6	.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.9		1.8	.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.3		1.8	.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.7		1.8	.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.1		1.8	.78	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.6		1.8	.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.8	.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.8		1.8	.50	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFSCW2-Water-11062020

Lab Sample ID: 320-66473-1

Date Collected: 11/06/20 09:40

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.7	.3	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluoropentanoic acid (PFPeA)	0.80	J	1.9	.47	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorohexanoic acid (PFHxA)	0.64	J	1.9	.55	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluoroheptanoic acid (PFHpA)	0.55	J	1.9	.24	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorooctanoic acid (PFOA)	1.6	J	1.9	.81	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorononanoic acid (PFNA)	ND		1.9	.26	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.52	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.69	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorobutanesulfonic acid (PFBS)	0.75	J	1.9	.19	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	.54	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	.51	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/13/20 04:55	11/14/20 05:12	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.93	ng/L		11/13/20 04:55	11/14/20 05:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	1.1	ng/L		11/13/20 04:55	11/14/20 05:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	1.2	ng/L		11/13/20 04:55	11/14/20 05:12	1
:2 FTS	ND		.7	.4	ng/L		11/13/20 04:55	11/14/20 05:12	1
8:2 FTS	ND		1.9	.44	ng/L		11/13/20 04:55	11/14/20 05:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			- 150	11/13/20 04:55	11/14/20 05:12	1
13C5 PFPeA	87		- 150	11/13/20 04:55	11/14/20 05:12	1
13C2 PFHxA	93		- 150	11/13/20 04:55	11/14/20 05:12	1
13C4 PFHpA	98		- 150	11/13/20 04:55	11/14/20 05:12	1
13C4 PFOA	96		- 150	11/13/20 04:55	11/14/20 05:12	1
13C5 PFNA	94		- 150	11/13/20 04:55	11/14/20 05:12	1
13C2 PFDA	92		- 150	11/13/20 04:55	11/14/20 05:12	1
13C2 PFUnA	96		- 150	11/13/20 04:55	11/14/20 05:12	1
13C2 PFDoA	90		- 150	11/13/20 04:55	11/14/20 05:12	1
13C2 PFTeDA			- 150	11/13/20 04:55	11/14/20 05:12	1
13C3 PFBS	95		- 150	11/13/20 04:55	11/14/20 05:12	1
18O2 PFHxS	100		- 150	11/13/20 04:55	11/14/20 05:12	1
13C4 PFOS	105		- 150	11/13/20 04:55	11/14/20 05:12	1
13C8 FOSA	99		- 150	11/13/20 04:55	11/14/20 05:12	1
d3-NMeFOSAA	83		- 150	11/13/20 04:55	11/14/20 05:12	1
-NEtFOSAA	1		- 150	11/13/20 04:55	11/14/20 05:12	1
M2-6:2 FTS	99		- 150	11/13/20 04:55	11/14/20 05:12	1
M2-8:2 FTS	95		- 150	11/13/20 04:55	11/14/20 05:12	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFSCW1-Water-11062020

Lab Sample ID: 320-66473-2

Date Collected: 11/06/20 09:55

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.8	.3	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluoropentanoic acid (PFPeA)	1.3	J	1.9	.47	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorohexanoic acid (PFHxA)	1.2	J	1.9	.56	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	.24	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorooctanoic acid (PFOA)	1.8	J	1.9	.82	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorononanoic acid (PFNA)	0.27	J	1.9	.26	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.30	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.1	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.53	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.3	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.70	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	.19	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.58	J	1.9	.55	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.9	.52	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.31	ng/L		11/13/20 04:55	11/14/20 05:21	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.94	ng/L		11/13/20 04:55	11/14/20 05:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.8	1.2	ng/L		11/13/20 04:55	11/14/20 05:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.8	1.3	ng/L		11/13/20 04:55	11/14/20 05:21	1
:2 FTS	ND		.8	.4	ng/L		11/13/20 04:55	11/14/20 05:21	1
8:2 FTS	ND		1.9	.44	ng/L		11/13/20 04:55	11/14/20 05:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			- 150	11/13/20 04:55	11/14/20 05:21	1
13C5 PFPeA	86		- 150	11/13/20 04:55	11/14/20 05:21	1
13C2 PFHxA	89		- 150	11/13/20 04:55	11/14/20 05:21	1
13C4 PFHpA	89		- 150	11/13/20 04:55	11/14/20 05:21	1
13C4 PFOA	93		- 150	11/13/20 04:55	11/14/20 05:21	1
13C5 PFNA	86		- 150	11/13/20 04:55	11/14/20 05:21	1
13C2 PFDA	90		- 150	11/13/20 04:55	11/14/20 05:21	1
13C2 PFUnA	96		- 150	11/13/20 04:55	11/14/20 05:21	1
13C2 PFDoA	90		- 150	11/13/20 04:55	11/14/20 05:21	1
13C2 PFTeDA	80		- 150	11/13/20 04:55	11/14/20 05:21	1
13C3 PFBS	86		- 150	11/13/20 04:55	11/14/20 05:21	1
18O2 PFHxS	95		- 150	11/13/20 04:55	11/14/20 05:21	1
13C4 PFOS	92		- 150	11/13/20 04:55	11/14/20 05:21	1
13C8 FOSA	94		- 150	11/13/20 04:55	11/14/20 05:21	1
d3-NMeFOSAA	9		- 150	11/13/20 04:55	11/14/20 05:21	1
-NEtFOSAA	82		- 150	11/13/20 04:55	11/14/20 05:21	1
M2-6:2 FTS	95		- 150	11/13/20 04:55	11/14/20 05:21	1
M2-8:2 FTS	82		- 150	11/13/20 04:55	11/14/20 05:21	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFW1-Water-11062020

Lab Sample ID: 320-66473-3

Date Collected: 11/06/20 10:55

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.7	.3	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluoropentanoic acid (PFPeA)	1.2	J	1.9	.46	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorohexanoic acid (PFHxA)	1.2	J	1.9	.54	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluoroheptanoic acid (PFHpA)	0.73	J	1.9	.23	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorooctanoic acid (PFOA)	1.7	J	1.9	.80	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorononanoic acid (PFNA)	ND		1.9	.25	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.52	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.69	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9	.19	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.9	.54	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorooctanesulfonic acid (PFOS)	1.6	J	1.9	.51	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/13/20 04:55	11/14/20 05:30	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.92	ng/L		11/13/20 04:55	11/14/20 05:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	1.1	ng/L		11/13/20 04:55	11/14/20 05:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	1.2	ng/L		11/13/20 04:55	11/14/20 05:30	1
:2 FTS	ND		.7	.3	ng/L		11/13/20 04:55	11/14/20 05:30	1
8:2 FTS	ND		1.9	.43	ng/L		11/13/20 04:55	11/14/20 05:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			- 150	11/13/20 04:55	11/14/20 05:30	1
13C5 PFPeA	85		- 150	11/13/20 04:55	11/14/20 05:30	1
13C2 PFHxA	95		- 150	11/13/20 04:55	11/14/20 05:30	1
13C4 PFHpA	97		- 150	11/13/20 04:55	11/14/20 05:30	1
13C4 PFOA	93		- 150	11/13/20 04:55	11/14/20 05:30	1
13C5 PFNA	85		- 150	11/13/20 04:55	11/14/20 05:30	1
13C2 PFDA	99		- 150	11/13/20 04:55	11/14/20 05:30	1
13C2 PFUnA	93		- 150	11/13/20 04:55	11/14/20 05:30	1
13C2 PFDoA	85		- 150	11/13/20 04:55	11/14/20 05:30	1
13C2 PFTeDA	83		- 150	11/13/20 04:55	11/14/20 05:30	1
13C3 PFBS	91		- 150	11/13/20 04:55	11/14/20 05:30	1
18O2 PFHxS	94		- 150	11/13/20 04:55	11/14/20 05:30	1
13C4 PFOS	95		- 150	11/13/20 04:55	11/14/20 05:30	1
13C8 FOSA	95		- 150	11/13/20 04:55	11/14/20 05:30	1
d3-NMeFOSAA	84		- 150	11/13/20 04:55	11/14/20 05:30	1
-NEtFOSAA			- 150	11/13/20 04:55	11/14/20 05:30	1
M2-6:2 FTS	92		- 150	11/13/20 04:55	11/14/20 05:30	1
M2-8:2 FTS	103		- 150	11/13/20 04:55	11/14/20 05:30	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFPCW1-Water-11062020

Lab Sample ID: 320-66473-4

Date Collected: 11/06/20 11:30

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	14		.7	.3	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluoropentanoic acid (PFPeA)	8.6		1.9	.46	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorohexanoic acid (PFHxA)	9.9		1.9	.55	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluoroheptanoic acid (PFHpA)	3.8		1.9	.24	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorooctanoic acid (PFOA)	6.6		1.9	.81	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorononanoic acid (PFNA)	0.63	J	1.9	.26	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.52	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.69	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorobutanesulfonic acid (PFBS)	2.7		1.9	.19	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.9	.54	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorooctanesulfonic acid (PFOS)	4.7		1.9	.51	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/13/20 04:55	11/14/20 05:39	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.93	ng/L		11/13/20 04:55	11/14/20 05:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	1.1	ng/L		11/13/20 04:55	11/14/20 05:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	1.2	ng/L		11/13/20 04:55	11/14/20 05:39	1
:2 FTS	ND		.7	.4	ng/L		11/13/20 04:55	11/14/20 05:39	1
8:2 FTS	ND		1.9	.44	ng/L		11/13/20 04:55	11/14/20 05:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	3		- 150	11/13/20 04:55	11/14/20 05:39	1
13C5 PFPeA	84		- 150	11/13/20 04:55	11/14/20 05:39	1
13C2 PFHxA	83		- 150	11/13/20 04:55	11/14/20 05:39	1
13C4 PFHpA	85		- 150	11/13/20 04:55	11/14/20 05:39	1
13C4 PFOA	92		- 150	11/13/20 04:55	11/14/20 05:39	1
13C5 PFNA	9		- 150	11/13/20 04:55	11/14/20 05:39	1
13C2 PFDA	92		- 150	11/13/20 04:55	11/14/20 05:39	1
13C2 PFUnA	89		- 150	11/13/20 04:55	11/14/20 05:39	1
13C2 PFDoA	81		- 150	11/13/20 04:55	11/14/20 05:39	1
13C2 PFTeDA	9		- 150	11/13/20 04:55	11/14/20 05:39	1
13C3 PFBS	89		- 150	11/13/20 04:55	11/14/20 05:39	1
18O2 PFHxS	91		- 150	11/13/20 04:55	11/14/20 05:39	1
13C4 PFOS	90		- 150	11/13/20 04:55	11/14/20 05:39	1
13C8 FOSA	89		- 150	11/13/20 04:55	11/14/20 05:39	1
d3-NMeFOSAA	82		- 150	11/13/20 04:55	11/14/20 05:39	1
-NEtFOSAA	84		- 150	11/13/20 04:55	11/14/20 05:39	1
M2-6:2 FTS	102		- 150	11/13/20 04:55	11/14/20 05:39	1
M2-8:2 FTS	90		- 150	11/13/20 04:55	11/14/20 05:39	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFPCW2-Water-11062020

Lab Sample ID: 320-66473-5

Date Collected: 11/06/20 12:10

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	10		.6	.2	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluoropentanoic acid (PFPeA)	7.5		1.9	.45	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorohexanoic acid (PFHxA)	7.6		1.9	.54	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluoroheptanoic acid (PFHpA)	3.2		1.9	.23	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorooctanoic acid (PFOA)	6.5		1.9	.79	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorononanoic acid (PFNA)	0.80	J	1.9	.25	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.51	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.68	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorobutanesulfonic acid (PFBS)	2.9		1.9	.19	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorohexanesulfonic acid (PFHxS)	5.1		1.9	.53	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorooctanesulfonic acid (PFOS)	21		1.9	.50	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/13/20 04:55	11/14/20 05:49	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.91	ng/L		11/13/20 04:55	11/14/20 05:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.6	1.1	ng/L		11/13/20 04:55	11/14/20 05:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.6	1.2	ng/L		11/13/20 04:55	11/14/20 05:49	1
:2 FTS	ND		.6	.3	ng/L		11/13/20 04:55	11/14/20 05:49	1
8:2 FTS	ND		1.9	.43	ng/L		11/13/20 04:55	11/14/20 05:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	8		- 150	11/13/20 04:55	11/14/20 05:49	1
13C5 PFPeA	89		- 150	11/13/20 04:55	11/14/20 05:49	1
13C2 PFHxA	85		- 150	11/13/20 04:55	11/14/20 05:49	1
13C4 PFHpA	89		- 150	11/13/20 04:55	11/14/20 05:49	1
13C4 PFOA	94		- 150	11/13/20 04:55	11/14/20 05:49	1
13C5 PFNA	88		- 150	11/13/20 04:55	11/14/20 05:49	1
13C2 PFDA	95		- 150	11/13/20 04:55	11/14/20 05:49	1
13C2 PFUnA	89		- 150	11/13/20 04:55	11/14/20 05:49	1
13C2 PFDoA	89		- 150	11/13/20 04:55	11/14/20 05:49	1
13C2 PFTeDA	80		- 150	11/13/20 04:55	11/14/20 05:49	1
13C3 PFBS	90		- 150	11/13/20 04:55	11/14/20 05:49	1
18O2 PFHxS	93		- 150	11/13/20 04:55	11/14/20 05:49	1
13C4 PFOS	103		- 150	11/13/20 04:55	11/14/20 05:49	1
13C8 FOSA	96		- 150	11/13/20 04:55	11/14/20 05:49	1
d3-NMeFOSAA			- 150	11/13/20 04:55	11/14/20 05:49	1
-NEtFOSAA	86		- 150	11/13/20 04:55	11/14/20 05:49	1
M2-6:2 FTS	106		- 150	11/13/20 04:55	11/14/20 05:49	1
M2-8:2 FTS	101		- 150	11/13/20 04:55	11/14/20 05:49	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFPCW3-Water-11062020

Lab Sample ID: 320-66473-6

Date Collected: 11/06/20 12:50

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.7		.7	.2	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluoropentanoic acid (PFPeA)	6.7		1.9	.46	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorohexanoic acid (PFHxA)	6.4		1.9	.54	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluoroheptanoic acid (PFHpA)	2.5		1.9	.23	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorooctanoic acid (PFOA)	4.4		1.9	.79	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorononanoic acid (PFNA)	0.33	J	1.9	.25	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorodecanoic acid (PFDA)	ND		1.9	.29	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	.51	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	.68	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorobutanesulfonic acid (PFBS)	2.9		1.9	.19	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.9	.53	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	.18	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorooctanesulfonic acid (PFOS)	6.7		1.9	.50	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	.30	ng/L		11/13/20 04:55	11/14/20 05:58	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	.92	ng/L		11/13/20 04:55	11/14/20 05:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	1.1	ng/L		11/13/20 04:55	11/14/20 05:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	1.2	ng/L		11/13/20 04:55	11/14/20 05:58	1
:2 FTS	ND		.7	.3	ng/L		11/13/20 04:55	11/14/20 05:58	1
8:2 FTS	ND		1.9	.43	ng/L		11/13/20 04:55	11/14/20 05:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	86		- 150	11/13/20 04:55	11/14/20 05:58	1
13C5 PFPeA	87		- 150	11/13/20 04:55	11/14/20 05:58	1
13C2 PFHxA	90		- 150	11/13/20 04:55	11/14/20 05:58	1
13C4 PFHpA	92		- 150	11/13/20 04:55	11/14/20 05:58	1
13C4 PFOA	98		- 150	11/13/20 04:55	11/14/20 05:58	1
13C5 PFNA	92		- 150	11/13/20 04:55	11/14/20 05:58	1
13C2 PFDA	93		- 150	11/13/20 04:55	11/14/20 05:58	1
13C2 PFUnA	94		- 150	11/13/20 04:55	11/14/20 05:58	1
13C2 PFDoA	88		- 150	11/13/20 04:55	11/14/20 05:58	1
13C2 PFTeDA	89		- 150	11/13/20 04:55	11/14/20 05:58	1
13C3 PFBS	95		- 150	11/13/20 04:55	11/14/20 05:58	1
18O2 PFHxS	95		- 150	11/13/20 04:55	11/14/20 05:58	1
13C4 PFOS	105		- 150	11/13/20 04:55	11/14/20 05:58	1
13C8 FOSA	104		- 150	11/13/20 04:55	11/14/20 05:58	1
d3-NMeFOSAA	83		- 150	11/13/20 04:55	11/14/20 05:58	1
-NEtFOSAA	96		- 150	11/13/20 04:55	11/14/20 05:58	1
M2-6:2 FTS	98		- 150	11/13/20 04:55	11/14/20 05:58	1
M2-8:2 FTS	98		- 150	11/13/20 04:55	11/14/20 05:58	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFPCW4-Water-11062020

Lab Sample ID: 320-66473-7

Date Collected: 11/06/20 13:20

Matrix: Water

Date Received: 11/07/20 09:25

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.8		.6	.2	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluoropentanoic acid (PFPeA)	5.9		1.8	.45	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorohexanoic acid (PFHxA)	5.3		1.8	.53	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluoroheptanoic acid (PFHpA)	2.7		1.8	.23	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorooctanoic acid (PFOA)	4.1		1.8	.78	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorononanoic acid (PFNA)	ND		1.8	.25	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorodecanoic acid (PFDA)	ND		1.8	.29	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	.51	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	.67	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorobutanesulfonic acid (PFBS)	2.6		1.8	.18	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.8	.52	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	.17	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorooctanesulfonic acid (PFOS)	5.8		1.8	.50	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	.29	ng/L		11/13/20 04:55	11/14/20 06:07	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	.90	ng/L		11/13/20 04:55	11/14/20 06:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.6	1.1	ng/L		11/13/20 04:55	11/14/20 06:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.6	1.2	ng/L		11/13/20 04:55	11/14/20 06:07	1
:2 FTS	ND		.6	.3	ng/L		11/13/20 04:55	11/14/20 06:07	1
8:2 FTS	ND		1.8	.42	ng/L		11/13/20 04:55	11/14/20 06:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91		- 150	11/13/20 04:55	11/14/20 06:07	1
13C5 PFPeA	94		- 150	11/13/20 04:55	11/14/20 06:07	1
13C2 PFHxA	96		- 150	11/13/20 04:55	11/14/20 06:07	1
13C4 PFHpA	97		- 150	11/13/20 04:55	11/14/20 06:07	1
13C4 PFOA	99		- 150	11/13/20 04:55	11/14/20 06:07	1
13C5 PFNA	91		- 150	11/13/20 04:55	11/14/20 06:07	1
13C2 PFDA	100		- 150	11/13/20 04:55	11/14/20 06:07	1
13C2 PFUnA	96		- 150	11/13/20 04:55	11/14/20 06:07	1
13C2 PFDoA	96		- 150	11/13/20 04:55	11/14/20 06:07	1
13C2 PFTeDA	86		- 150	11/13/20 04:55	11/14/20 06:07	1
13C3 PFBS	100		- 150	11/13/20 04:55	11/14/20 06:07	1
18O2 PFHxS	102		- 150	11/13/20 04:55	11/14/20 06:07	1
13C4 PFOS	102		- 150	11/13/20 04:55	11/14/20 06:07	1
13C8 FOSA	108		- 150	11/13/20 04:55	11/14/20 06:07	1
d3-NMeFOSAA	83		- 150	11/13/20 04:55	11/14/20 06:07	1
-NEtFOSAA	90		- 150	11/13/20 04:55	11/14/20 06:07	1
M2-6:2 FTS	108		- 150	11/13/20 04:55	11/14/20 06:07	1
M2-8:2 FTS	106		- 150	11/13/20 04:55	11/14/20 06:07	1

Eurofins TestAmerica, Sacramento

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-66473-1	LFSCW2-Water-11062020	76	87	93	98	96	94	92	96
320-66473-2	LFSCW1-Water-11062020	75	86	89	89	93	86	90	96
320-66473-3	LFW1-Water-11062020	76	85	95	97	93	85	99	93
320-66473-4	LFPCW1-Water-11062020	73	84	83	85	92	79	92	89
320-66473-5	LFPCW2-Water-11062020	78	89	85	89	94	88	95	89
320-66473-6	LFPCW3-Water-11062020	86	87	90	92	98	92	93	94
320-66473-7	LFPCW4-Water-11062020	91	94	96	97	99	91	100	96
LCS 320-431326/2-A	Lab Control Sample	97	96	95	101	98	93	99	97
MB 320-431326/1-A	Method Blank	90	93	93	91	100	92	92	89

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFO (25-150)	d5NEFO (25-150)
320-66473-1	LFSCW2-Water-11062020	90	77	95	100	105	99	83	71
320-66473-2	LFSCW1-Water-11062020	90	80	86	95	92	94	79	82
320-66473-3	LFW1-Water-11062020	85	83	91	94	95	95	84	77
320-66473-4	LFPCW1-Water-11062020	81	79	89	91	90	89	82	84
320-66473-5	LFPCW2-Water-11062020	89	80	90	93	103	96	76	86
320-66473-6	LFPCW3-Water-11062020	88	89	95	95	105	104	83	96
320-66473-7	LFPCW4-Water-11062020	96	86	100	102	102	108	83	90
LCS 320-431326/2-A	Lab Control Sample	108	105	95	102	102	102	88	90
MB 320-431326/1-A	Method Blank	91	104	92	96	104	97	89	104

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
320-66473-1	LFSCW2-Water-11062020	99	95
320-66473-2	LFSCW1-Water-11062020	95	82
320-66473-3	LFW1-Water-11062020	92	103
320-66473-4	LFPCW1-Water-11062020	102	90
320-66473-5	LFPCW2-Water-11062020	106	101
320-66473-6	LFPCW3-Water-11062020	98	98
320-66473-7	LFPCW4-Water-11062020	108	106
LCS 320-431326/2-A	Lab Control Sample	88	106
MB 320-431326/1-A	Method Blank	89	92

rrrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA

Eurofins TestAmerica, Sacramento

Isotope Dilution Summary

Client: New York State D.E.C.

Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

d3NMFOS = d3-NMeFOSAA

d5NEFOS = d5-NEtFOSAA

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-431326/1-A

Matrix: Water

Analysis Batch: 431580

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 431326

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		g.0	.4	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluoro8entanoic acid (PFPeA)	ND		.0	.49	nL/5		11/13/20 04:gg	11/14/20 03:04	1
PerfluoroheTanoic acid (PFx TA)	ND		.0	.gU	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorohe8tanoic acid (PFx 8A)	ND		.0	.2g	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorooctanoic acid (PFHA)	ND		.0	0.Ug	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorononanoic acid (PFNA)	ND		.0	.27	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorodecanoic acid (PFDA)	ND		.0	.31	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluoroundecanoic acid (PFp nA)	ND		.0	1.1	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorododecanoic acid (PFDoA)	ND		.0	.gg	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorotridecanoic acid (PFQriA)	ND		.0	1.3	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorotetradecanoic acid (PFQeA)	ND		.0	.73	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		.0	.20	nL/5		11/13/20 04:gg	11/14/20 03:04	1
PerfluoroheTanesulfonic acid (PFx TS)	ND		.0	.g7	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorohe8tanesulfonic Acid (PFx 8S)	ND		.0	.19	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorooctanesulfonic acid (PFHS)	ND		.0	.g4	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		.0	.32	nL/5		11/13/20 04:gg	11/14/20 03:04	1
Perfluorooctanesulfonamide (FHSA)	ND		.0	.9U	nL/5		11/13/20 04:gg	11/14/20 03:04	1
N-methyl8erfluorooctanesulfonamidoa cetic acid (NMeFHSA)	ND		g.0	1.2	nL/5		11/13/20 04:gg	11/14/20 03:04	1
N-ethyl8erfluorooctanesulfonamidoac etic acid (NEtFHSA)	ND		g.0	1.3	nL/5		11/13/20 04:gg	11/14/20 03:04	1
6:2 FOS	ND		g.0	.g	nL/5		11/13/20 04:gg	11/14/20 03:04	1
U:2 FOS	ND		.0	.46	nL/5		11/13/20 04:gg	11/14/20 03:04	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA			- 156	11/13/20 64/55	11/14/20 63/64	1
13C5 PFP:	3		- 156	11/13/20 64/55	11/14/20 63/64	1
13C2 PFe 8	3		- 156	11/13/20 64/55	11/14/20 63/64	1
13C4 PFe H	1		- 156	11/13/20 64/55	11/14/20 63/64	1
13C4 PFx	166		- 156	11/13/20 64/55	11/14/20 63/64	1
13C5 PF9			- 156	11/13/20 64/55	11/14/20 63/64	1
13C2 PFp			- 156	11/13/20 64/55	11/14/20 63/64	1
13C2 PFND	07		- 156	11/13/20 64/55	11/14/20 63/64	1
13C2 PFp U	1		- 156	11/13/20 64/55	11/14/20 63/64	1
13C2 PFn: p	164		- 156	11/13/20 64/55	11/14/20 63/64	1
13C3 PFBo			- 156	11/13/20 64/55	11/14/20 63/64	1
1Qx 2 PFe 8o	T		- 156	11/13/20 64/55	11/14/20 63/64	1
13C4 PFx o	164		- 156	11/13/20 64/55	11/14/20 63/64	1
13COFx o	S		- 156	11/13/20 64/55	11/14/20 63/64	1
d3-9M: Fx o	07		- 156	11/13/20 64/55	11/14/20 63/64	1
d5-9 EtFx o	164		- 156	11/13/20 64/55	11/14/20 63/64	1
M2-T/2 Fno	07		- 156	11/13/20 64/55	11/14/20 63/64	1
M2-O2 Fno			- 156	11/13/20 64/55	11/14/20 63/64	1

Eurofins WestAmerica, Sacramento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

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

Lab Sample ID: LCS 320-431326/2-A

Matrix: Water

Analysis Batch: 431580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 431326

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	.0	.2		nL/5		111	76 136
Perfluoro8entanoic acid (PFPeA)	.0	39.g		nL/5		99	71 131
PerfluoroheTanoic acid (PFx TA)	.0	.g		nL/5		111	73 133
Perfluorohe8tanoic acid (PFx 8A)	.0	.3		nL/5		106	72 132
Perfluorooctanoic acid (PFHA)	.0	39.0		nL/5		9U	70 130
Perfluorononanoic acid (PFNA)	.0	7.4		nL/5		119	7g 13g
Perfluorodecanoic acid (PFDA)	.0	3.0		nL/5		107	76 136
Perfluoroundecanoic acid (PFp nA)	.0	39.g		nL/5		99	U 12U
Perfluorododecanoic acid (PFDoA)	.0	39.3		nL/5		9U	71 131
Perfluorotridecanoic acid (PFQIA)	.0	.0		nL/5		10g	71 131
Perfluorotetradecanoic acid (PFQeA)	.0	g.9		nL/5		11g	70 130
Perfluorobutanesulfonic acid (PFBS)	3g.4	37.1		nL/5		10g	7 127
PerfluoroheTanesulfonic acid (PFx TS)	36.4	37.g		nL/5		103	g9 119
Perfluorohe8tanesulfonic Acid (PFx 8S)	3U.1	3.2		nL/5		113	76 136
Perfluorooctanesulfonic acid (PFHS)	37.1	1.6		nL/5		112	70 130
Perfluorodecanesulfonic acid (PFDS)	3U.6	.3		nL/5		10g	71 131
Perfluorooctanesulfonamide (FHSA)	.0	.3		nL/5		111	73 133
N-methyl8erfluorooctanesulfonamidoacetic acid (NMeFHSA)	.0	.3		nL/5		101	76 136
N-ethyl8erfluorooctanesulfonamidoacetic acid (NEtFHSA)	.0	.9		nL/5		107	76 136
6:2 FOS	37.9	37.3		nL/5		9U	g9 17g
U: FOS	3U.3	37.3		nL/5		97	7g 13g

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	S		- 156
13C5 PFP:	T		- 156
13C2 PFe 8			- 156
13C4 PFe H	161		- 156
13C4 PFx	O		- 156
13C5 PF9	3		- 156
13C2 PFp			- 156
13C2 PFND	S		- 156
13C2 PFp U	160		- 156
13C2 PFn: p	165		- 156
13C3 PFB0			- 156
10x 2 PFe 80	162		- 156
13C4 PFx o	162		- 156
13COFx o	162		- 156
d3-9 M: Fx o	∞		- 156
d5-9 EtFx o			- 156

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

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

Lab Sample ID: LCS 320-431326/2-A

Matrix: Water

Analysis Batch: 431580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 431326

Isotope Dilution	LCS	LCS	Limits
	%Recovery	Qualifier	
M2-T/2 Fno	∞		- 156
M2-Q/2 Fno	16T		- 156

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

LCMS

Prep Batch: 431326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66473-1	LFSCW2-Water-11062020	Total/NA	Water	3535	
320-66473-2	LFSCW1-Water-11062020	Total/NA	Water	3535	
320-66473-3	LFW1-Water-11062020	Total/NA	Water	3535	
320-66473-4	LFPCW1-Water-11062020	Total/NA	Water	3535	
320-66473-5	LFPCW2-Water-11062020	Total/NA	Water	3535	
320-66473-6	LFPCW3-Water-11062020	Total/NA	Water	3535	
320-66473-7	LFPCW4-Water-11062020	Total/NA	Water	3535	
MB 320-431326/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-431326/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 431580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-66473-1	LFSCW2-Water-11062020	Total/NA	Water	537 (modified)	31326
320-66473-2	LFSCW1-Water-11062020	Total/NA	Water	537 (modified)	31326
320-66473-3	LFW1-Water-11062020	Total/NA	Water	537 (modified)	31326
320-66473-4	LFPCW1-Water-11062020	Total/NA	Water	537 (modified)	31326
320-66473-5	LFPCW2-Water-11062020	Total/NA	Water	537 (modified)	31326
320-66473-6	LFPCW3-Water-11062020	Total/NA	Water	537 (modified)	31326
320-66473-7	LFPCW4-Water-11062020	Total/NA	Water	537 (modified)	31326
MB 320-431326/1-A	Method Blank	Total/NA	Water	537 (modified)	31326
LCS 320-431326/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	31326

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFSCW2-Water-11062020

Lab Sample ID: 320-66473-1

Date Collected: 11/06/20 09:40

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			263.4 mL	10.0 mL	431326	11/13/20 04:55	LB	TAL SAC
T tal/NA	Analysis	537 (modified)		1			431580	11/14/20 05:12	RS1	TAL SAC

Client Sample ID: LFSCW1-Water-11062020

Lab Sample ID: 320-66473-2

Date Collected: 11/06/20 09:55

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			259.3 mL	10.0 mL	431326	11/13/20 04:55	LB	TAL SAC
T tal/NA	Analysis	537 (modified)		1			431580	11/14/20 05:21	RS1	TAL SAC

Client Sample ID: LFW1-Water-11062020

Lab Sample ID: 320-66473-3

Date Collected: 11/06/20 10:55

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			266.3 mL	10.0 mL	431326	11/13/20 04:55	LB	TAL SAC
T tal/NA	Analysis	537 (modified)		1			431580	11/14/20 05:30	RS1	TAL SAC

Client Sample ID: LFPCW1-Water-11062020

Lab Sample ID: 320-66473-4

Date Collected: 11/06/20 11:30

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			263.9 mL	10.0 mL	431326	11/13/20 04:55	LB	TAL SAC
T tal/NA	Analysis	537 (modified)		1			431580	11/14/20 05:39	RS1	TAL SAC

Client Sample ID: LFPCW2-Water-11062020

Lab Sample ID: 320-66473-5

Date Collected: 11/06/20 12:10

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			270.2 mL	10.0 mL	431326	11/13/20 04:55	LB	TAL SAC
T tal/NA	Analysis	537 (modified)		1			431580	11/14/20 05:49	RS1	TAL SAC

Client Sample ID: LFPCW3-Water-11062020

Lab Sample ID: 320-66473-6

Date Collected: 11/06/20 12:50

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			267.7 mL	10.0 mL	431326	11/13/20 04:55	LB	TAL SAC
T tal/NA	Analysis	537 (modified)		1			431580	11/14/20 05:58	RS1	TAL SAC

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Client Sample ID: LFPCW4-Water-11062020

Lab Sample ID: 320-66473-7

Date Collected: 11/06/20 13:20

Matrix: Water

Date Received: 11/07/20 09:25

Prep Type	Batch Typ	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3535			271.5 mL	10.0 mL	431326	11/13/20 04:55	LB	TAL SAC
Ttal/NA	Analysis	537 (modified)		1			431580	11/14/20 06:07	RS1	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
ew k	ELAP	11666	04-01-21

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	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	-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 (PFDoA)
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 (FOSA)
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 (PFT iA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

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 SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 320-66473-1

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-66473-1	LFSCW2-Water-11062020	Water	11/06/20 09:40	11/07/20 09: 5	
320-66473-2	LFSCW1-Water-11062020	Water	11/06/20 09:55	11/07/20 09: 5	
320-66473-3	LFW1-Water-11062020	Water	11/06/20 10:55	11/07/20 09:25	
320-66473-4	LFPCW1-Water-11062020	Water	11/06/20 11:30	11/07/20 09: 5	
320-66473-5	LFPCW2-Water-11062020	Water	11/06/20 12:10	11/07/20 09: 5	
320-66473-6	LFPCW3-Water-11062020	Water	11/06/20 12:50	11/07/20 09: 5	
320-66473-7	LFPCW4-Water-11062020	Water	11/06/20 13:20	11/07/20 09: 5	



Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 320-66473-1

Login Number: 66473

List Source: Eurofins T stAmerica, Sacramento

List Number: 1

Creator: Oropeza, Salvador

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	ue	
he cooler's custody seal, if present, is intact.	ue	1478558
he cooler or samples do not appear to have been compromised or tampered with.	ue	
Samples were received on ice.	ue	
Cooler emperature is acceptable.	ue	
Cooler emperature is recorded.	ue	
COC is present.	ue	
COC is filled out in ink and legible.	ue	
COC is filled out with all pertinent information.	ue	
Is the Field Sampler's name present on COC?	ue	
There are no discrepancies between the sample IDs on the containers and the COC.	ue	
Samples are received within Holding ime (Excluding tests with immediate HTs)..	ue	
Sample containers have legible labels.	ue	
Containers are not broken or leaking.	ue	
Sample collection date/times are provided.	ue	
Appropriate sample containers are used.	ue	
Sample bottles are completely filled.	ue	
Sample Preservation Verified	/A	
There is sufficient vol. for all requested analyses, incl. any equested MS/MSDs	ue	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	ue	
If necessary, staff have been informed of any short hold time o quick A needs	ue	
Multiphasic samples are not present.	ue	
Samples do not require splitting or compositing.	ue	
Sampling Company provided.	ue	
Samples received within 48 hours of sampling.	ue	
Samples requiring field filtration have been filtered in the field.	ue	
Chlorine Residual checked.	/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-221262-1

Client Project/Site: Norlite - Cohoes #401041
Revision: 1

For:

New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Lynn M Winterberger



Authorized for release by:
1/22/2021 9:46:48 AM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.

Table of Contents

Cover Page 1

Table of Contents 2

Definitions/Glossary 3

Case Narrative 5

Detection Summary 8

Client Sample Results 24

Isotope Dilution Summary 72

QC Sample Results 77

QC Association Summary 114

Lab Chronicle 125

Certification Summary 138

Method Summary 140

Sample Summary 141

Chain of Custody 142

Field Data Sheets 153

Receipt Checklists 154



Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*5	Isotope dilution analyte is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
H	Sample was prepped or analyzed beyond the specified holding time
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

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
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)

Eurofins TestAmerica, Edison

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

ID: 460-221262-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Narrative 460-221262-1

Revision (1)

The report is being revised to add an NCM for Cr+6 soils. Since the first set of matrix spikes were outside limits, all samples in the batch were rerun per the method.

Receipt

The samples were received on 10/23/2020 10:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.8° C and 4.5° C.

Receipt Exceptions

The following samples were received outside of holding time for Hexavalent Chromium: TB1-102120 (460-221262-2), Equipment Blank 102120 (460-221262-25) and Field Blank 102120 (460-221262-26).

Metals

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

LCMS

Method 537 (modified): The concentration of Perfluorooctanoic acid (PFOA) associated with the following samples exceeded the instrument calibration range: (460-221392-F-10-A), (460-221392-F-10-B MS) and (460-221392-F-10-C MSD). These analytes have been qualified; however, the peaks did not saturate the instrument detector. The samples were diluted within calibration range, and both sets of data were reported.

Method 537 (modified): Due to the high concentration of Perfluorooctanoic acid (PFOA), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-426004 and analytical batch 320-426308 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 537 (modified): The method blank for preparation batch 320-426093 and analytical batch 320-427158 contained Perfluorooctanesulfonic acid (PFOS) above the reporting limit (RL). Associated sample was not re-extracted because results were greater than 10X the value found in the method blank.

Method 537 (modified): The method blank for preparation batch 320-426093 contained Perfluorooctanesulfonic acid (PFOS) above the reporting limit (RL). The sample associated with this method blank did not contain the target compound; therefore, re-extraction of sample were not performed.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit for 13C2 PFTeDA: (460-221262-B-12-C MSD). 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.

Method 537 (modified): The matrix spike/ matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-426094 and analytical batch 320-427508 were outside control limits for Perfluoroundecanoic acid (PFUnA). Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analytes were outside of the established ratio limits. The qualitative identification of the analytes have some degree of uncertainty. However, analyst judgment was used to positively identify the analytes.

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Perfluoroundecanoic acid (PFUnA) preparation batch 320-426801 and analytical batch 320-427738 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. (CCVL 320-428679/2)

Case Narrative

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

ID: 460-221262-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS and M2-8:2 FTS in the following samples: PC1-SOIL-102120 (460-221262-1), PC2-SOIL-102120 (460-221262-3) and S2-SOIL-102120 (460-221262-8). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-8:2 FTS in the following samples: S15-SOIL-102120 (460-221262-4), S13-SOIL-102120 (460-221262-6), S13-SOIL-102120 (460-221262-6[MS]) and S13-SOIL-102120 (460-221262-6[MSD]). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification of the analyte(s) has/have some degree of uncertainty. However, analyst judgement was used to positively identify the analyte(s).
PC1-SOIL-102120 (460-221262-1)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for several IDA in the following sample: S2-SOIL-102120 (460-221262-8). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The following sample exhibited elevated noise or matrix interference for Perfluorobutanesulfonic acid (PFBS) causing elevation of the reporting limit. The reporting limit has been raised to be equal to the matrix and a "G" qualifier applied.
PC1-SOIL-102120 (460-221262-1)

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-426095 and analytical batch 320-427153 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following laboratory control sample is below the method recommended limit for d5-NEtFOSAA: (LCS 320-426095/2-A). 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.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. S9A-SOIL-102120 (460-221262-23)

Method 537 (modified): The laboratory control sample (LCS) for preparation batch 320-426095 and analytical batch 320-427153 recovered outside control limits for Perfluorodecanesulfonic acid (PFDS) and Perfluorooctanesulfonic acid (PFOS). The associated samples were re-extracted outside holding time. Both sets of data have been reported.

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

General Chemistry

Method 7196A: The matrix spike soluble/matrix spike insoluble (MSS/MSI) recoveries for batch 736736, which was a re-prep of batch 736100, were outside control limits due to sample matrix. The associated laboratory control sample (LCSS/LCSI) recoveries met acceptance criteria. Both sets of data have been reported.

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

Organic Prep

Method SHAKE: The following samples are light yellow color after final volume: PC1-SOIL-102120 (460-221262-1), PC2-SOIL-102120 (460-221262-3), S14-SOIL-102120 (460-221262-5), S13-SOIL-102120 (460-221262-6), S13-SOIL-102120 (460-221262-6[MS]), S13-SOIL-102120 (460-221262-6[MSD]) and S3-SOIL-102120 (460-221262-10).

Method SHAKE: The samples, S9A-SOIL-102120 (460-221262-23), S9B-SOIL-102120 (460-221262-24), S9B-SOIL-102120 (460-221262-24[MS]), S9B-SOIL-102120 (460-221262-24[MSD]), S5-SOIL-102120 (460-221262-27) and S10-SOIL-102120

Case Narrative

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

ID: 460-221262-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

(460-221262-28), were yellow after extraction and final volume.

Method SHAKE: The following samples were yellow after extraction/final volume: S1-SOIL-102120 (460-221262-15), S6A-SOIL-102120 (460-221262-17), S6B-SOIL-102120 (460-221262-18), S7A-SOIL-102120 (460-221262-19), S7B-SOIL-102120 (460-221262-20), S8A-SOIL-102120 (460-221262-21) and S8B-SOIL-102120 (460-221262-22).

Method SHAKE: The following samples were yellow after final volume/extraction: PC1-SOIL-102120 (460-221262-1), PC2-SOIL-102120 (460-221262-3), S15-SOIL-102120 (460-221262-4), S14-SOIL-102120 (460-221262-5), S13-SOIL-102120 (460-221262-6), S13-SOIL-102120 (460-221262-6[MS]), S13-SOIL-102120 (460-221262-6[MSD]) and S3-SOIL-102120 (460-221262-10).

Method SHAKE: The following samples were yellow after final volume/extraction: S9A-SOIL-102120 (460-221262-23), S9B-SOIL-102120 (460-221262-24), S9B-SOIL-102120 (460-221262-24[MS]), S9B-SOIL-102120 (460-221262-24[MSD]), S5-Soil-102120 (460-221262-27) and S10-Soil-102120 (460-221262-28).

Method SHAKE: The following samples were pale yellow after extraction/final volume: S9A-SOIL-102120 (460-221262-23), S9B-SOIL-102120 (460-221262-24), S9B-SOIL-102120 (460-221262-24[MS]), S9B-SOIL-102120 (460-221262-24[MSD]), S5-Soil-102120 (460-221262-27) and S10-Soil-102120 (460-221262-28).

Method SHAKE: The following samples were re-prepared outside of preparation holding time due to very low %R in the MB and LCS and the QC re-injects did not match: S9A-SOIL-102120 (460-221262-23), S9B-SOIL-102120 (460-221262-24), S9B-SOIL-102120 (460-221262-24[MS]), S9B-SOIL-102120 (460-221262-24[MSD]), S5-S il-102120 (460-221262-27) and S10-Soil-102120 (460-221262-28).

Method SHAKE: The following samples are yellow after final voluming: S9A-SOIL-102120 (460-221262-23), S9B-SOIL-102120 (460-221262-24), S9B-SOIL-102120 (460-221262-24[MS]), S9B-SOIL-102120 (460-221262-24[MSD]), S5-Soil-102120 (460-221262-27) and S10-Soil-102120 (460-221262-28).

Method SHAKE: The following samples were re-prepared outside of preparation holding time due to PFOS hit in the method blank and high LCS recoveries for several analytes: S9A-SOIL-102120 (460-221262-23), S9B-SOIL-102120 (460-221262-24), S9B-SOIL-102120 (460-221262-24[MS]), S9B-SOIL-102120 (460-221262-24[MSD]), S5-S il-102120 (460-221262-27) and S10-Soil-102120 (460-221262-28).

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: PC1-SOIL-102120

Lab Sample ID: 460-221262-1

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.26	J	.33	.046	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.20	J	.33	.13	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.27	J	.33	.069	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.18	J	.33	.048	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.63		.33	.14	ug/Kg		✖	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.27	J	.33	.059	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.37		.33	.036	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.18	J	.33	.059	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.21	J	.33	.051	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.0		.83	.33	ug/Kg		✖	537 (modified)	Total/NA

Client Sample ID: TB1-102120

Lab Sample ID: 460-221262-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8	J	5000	83.8	ug/L			D	Total/NA
Zinc	.4	J	30.0	.2	ug/L			D	Total/NA

Client Sample ID: PC2-SOIL-102120

Lab Sample ID: 460-221262-3

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.54		.24	.033	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.22	J	.24	.091	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.20	J	.24	.050	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.23	J	.24	.034	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.75		.24	.10	ug/Kg		✖	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.25		.24	.043	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.15	J	.24	.026	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.1	J	.24	.043	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.053	J	.24	.037	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.3		.59	.24	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	.078	J	.24	.046	ug/Kg		✖	537 (modified)	Total/NA

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.28	J	.30	.043	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.19	J	.30	.12	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.27	J	.30	.064	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.26	J	.30	.044	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.88		.30	.13	ug/Kg		✖	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.37		.30	.055	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.35		.30	.033	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.27	J	.30	.055	ug/Kg		✖	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.15	J	.30	.10	ug/Kg		✖	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	.089	J	.30	.077	ug/Kg		✖	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.046	J	.30	.038	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.2		.76	.30	ug/Kg		✖	537 (modified)	Total/NA
Aluminum	300		.9	8.8	mg/Kg		✖	D	Total/NA
Arsenic	7.8		4.6	.95	mg/Kg		✖	D	Total/NA
Barium	52		.9	.0	mg/Kg		✖	D	Total/NA
Beryllium	.93		.62	.099	mg/Kg		✖	D	Total/NA
Cadmium	.90	J	.2	.1	mg/Kg		✖	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S15-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-4

analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	5940		550	4	mg/Kg		✱	D	Total/NA
Chromium	.5		3.1	.2	mg/Kg		✱	D	Total/NA
Cobalt	.1		5.5	.86	mg/Kg		✱	D	Total/NA
Copper	34.3		7.7	.9	mg/Kg		✱	D	Total/NA
Iron	37800		46.4	31.9	mg/Kg		✱	D	Total/NA
Lead	35.8		3.1	.50	mg/Kg		✱	D	Total/NA
Magnesium	780		550	5	mg/Kg		✱	D	Total/NA
Manganese	775		4.6	.35	mg/Kg		✱	D	Total/NA
Nickel	34.1		.4	.81	mg/Kg		✱	D	Total/NA
Potassium	3490		550	95.0	mg/Kg		✱	D	Total/NA
Sodium	3	J	550	35	mg/Kg		✱	D	Total/NA
Vanadium	38.0		5.5	.4	mg/Kg		✱	D	Total/NA
Zinc	41		9.3	.7	mg/Kg		✱	D	Total/NA
Mercury	.032		.025	.0058	mg/Kg		✱	7471B	Total/NA

Client Sample ID: S14-SOIL-102120

Lab Sample ID: 460-221262-5

analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.45		.25	.034	ug/Kg		✱	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.24	J	.25	.094	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.27		.25	.052	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.24	J	.25	.036	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.1		.25	.1	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.35		.25	.044	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.27		.25	.027	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.20	J	.25	.044	ug/Kg		✱	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.1	J	.25	.082	ug/Kg		✱	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	.090	J	.25	.063	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.044	J	.25	.031	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.5		.25	.038	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	.047	J	.25	.043	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	9.8		.61	.25	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	800		47.1	.7	mg/Kg		✱	D	Total/NA
Antimony	.7	J	4.7	.4	mg/Kg		✱	D	Total/NA
Arsenic	8.1		3.5	.72	mg/Kg		✱	D	Total/NA
Barium			47.1	4.5	mg/Kg		✱	D	Total/NA
Beryllium	.77		.47	.075	mg/Kg		✱	D	Total/NA
Cadmium	.88	J	.94	.081	mg/Kg		✱	D	Total/NA
Calcium	8900		80	87.1	mg/Kg		✱	D	Total/NA
Chromium	.7		.4	.7	mg/Kg		✱	D	Total/NA
Cobalt	3.1		.8	.65	mg/Kg		✱	D	Total/NA
Copper	41.2		5.9	.5	mg/Kg		✱	D	Total/NA
Iron	32400		35.4	4.3	mg/Kg		✱	D	Total/NA
Lead	46.5		.4	.38	mg/Kg		✱	D	Total/NA
Magnesium	5700		80	79.8	mg/Kg		✱	D	Total/NA
Manganese	98		3.5	.27	mg/Kg		✱	D	Total/NA
Nickel	.8		9.4	.62	mg/Kg		✱	D	Total/NA
Potassium	410		80	72.4	mg/Kg		✱	D	Total/NA
Vanadium	9.6		.8	.1	mg/Kg		✱	D	Total/NA
Zinc			7.1	.3	mg/Kg		✱	D	Total/NA
Mercury	.10		.021	.0049	mg/Kg		✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S13-SOIL-102120

Lab Sample ID: 460-221262-6

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.90		.24	.034	ug/Kg		✱	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.6		.24	.093	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.1		.24	.050	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.0		.24	.035	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.1		.24	.10	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.2		.24	.043	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.1		.24	.026	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.86		.24	.043	ug/Kg		✱	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.28		.24	.081	ug/Kg		✱	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	.1	J	.24	.061	ug/Kg		✱	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	.066	J	.24	.065	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.65		.60	.24	ug/Kg		✱	537 (modified)	Total/NA
:2 FTS	.23	J	.4	.18	ug/Kg		✱	537 (modified)	Total/NA
8:2 FTS	.70	J	.4	.30	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	3100		51.0	7.2	mg/Kg		✱	D	Total/NA
Arsenic	5.1		3.8	.78	mg/Kg		✱	D	Total/NA
Barium			51.0	4.9	mg/Kg		✱	D	Total/NA
Beryllium	.56		.51	.082	mg/Kg		✱	D	Total/NA
Cadmium	.57	J	.0	.088	mg/Kg		✱	D	Total/NA
Calcium			70	94.2	mg/Kg		✱	D	Total/NA
Chromium	.9		.5	.8	mg/Kg		✱	D	Total/NA
Cobalt	7.9	J	.7	.71	mg/Kg		✱	D	Total/NA
Copper	.2		.4	.6	mg/Kg		✱	D	Total/NA
Iron	3300		38.2	.3	mg/Kg		✱	D	Total/NA
Lead	.1		.5	.41	mg/Kg		✱	D	Total/NA
Magnesium	4330		70	86.3	mg/Kg		✱	D	Total/NA
Manganese	893		3.8	.29	mg/Kg		✱	D	Total/NA
Nickel	9.6		.2	.67	mg/Kg		✱	D	Total/NA
Potassium	70	J	70	78.3	mg/Kg		✱	D	Total/NA
Sodium	512	J	70		mg/Kg		✱	D	Total/NA
Vanadium	.2		.7	.2	mg/Kg		✱	D	Total/NA
Zinc			7.6	.4	mg/Kg		✱	D	Total/NA
Mercury	.039		.021	.0050	mg/Kg		✱	7471B	Total/NA

Client Sample ID: S16-SOIL-102120

Lab Sample ID: 460-221262-7

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.45		.24	.034	ug/Kg		✱	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.17	J	.24	.092	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.19	J	.24	.050	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.19	J	.24	.035	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.52		.24	.10	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.29		.24	.043	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.21	J	.24	.026	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.14	J	.24	.043	ug/Kg		✱	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.089	J	.24	.080	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.1	J	.24	.030	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.65		.60	.24	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	5900		47.7	.8	mg/Kg		✱	D	Total/NA
Arsenic	.4		3.6	.73	mg/Kg		✱	D	Total/NA
Barium			47.7	4.6	mg/Kg		✱	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S16-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-7

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	.68		.48	.076	mg/Kg		☼	D	Total/NA
Cadmium	.52	J	.95	.082	mg/Kg		☼	D	Total/NA
Calcium	4010		90	88.2	mg/Kg		☼	D	Total/NA
Chromium	8.9		.4	.7	mg/Kg		☼	D	Total/NA
Cobalt	.7		.9	.66	mg/Kg		☼	D	Total/NA
Copper	4.4		.0	.5	mg/Kg		☼	D	Total/NA
Iron	8700		35.8	4.6	mg/Kg		☼	D	Total/NA
Lead	7.8		.4	.39	mg/Kg		☼	D	Total/NA
Magnesium	5120		90	80.8	mg/Kg		☼	D	Total/NA
Manganese	9		3.6	.27	mg/Kg		☼	D	Total/NA
Nickel	3.9		9.5	.63	mg/Kg		☼	D	Total/NA
Potassium	80		90	73.3	mg/Kg		☼	D	Total/NA
Vanadium	8.1		.9	.1	mg/Kg		☼	D	Total/NA
Zinc	79.2		7.2	.3	mg/Kg		☼	D	Total/NA
Mercury	.018	J	.020	.0048	mg/Kg		☼	7471B	Total/NA

Client Sample ID: S2-SOIL-102120

Lab Sample ID: 460-221262-8

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.59		.29	.040	ug/Kg		☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.37		.29	0.1	ug/Kg		☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.32		.29	.061	ug/Kg		☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.30		.29	.042	ug/Kg		☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.95		.29	.12	ug/Kg		☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.45		.29	.052	ug/Kg		☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.32		.29	.032	ug/Kg		☼	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.34		.29	.052	ug/Kg		☼	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.14	J	.29	.097	ug/Kg		☼	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	.1	J	.29	.074	ug/Kg		☼	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	.079	J	.29	.078	ug/Kg		☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.25	J	.29	.036	ug/Kg		☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.049	J	.29	.045	ug/Kg		☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.4		.72	.29	ug/Kg		☼	537 (modified)	Total/NA
Aluminum	8100		56.1	7.9	mg/Kg		☼	D	Total/NA
Arsenic	9.6		4.2	.86	mg/Kg		☼	D	Total/NA
Barium	46		56.1	5.4	mg/Kg		☼	D	Total/NA
Beryllium	.80		.56	.090	mg/Kg		☼	D	Total/NA
Cadmium	.86	J	.1	.097	mg/Kg		☼	D	Total/NA
Calcium	8480		400	4	mg/Kg		☼	D	Total/NA
Chromium	4.9		.8	.0	mg/Kg		☼	D	Total/NA
Cobalt	4.4		4.0	.78	mg/Kg		☼	D	Total/NA
Copper	37.8		7.0	.8	mg/Kg		☼	D	Total/NA
Iron	34400		42.1	8.9	mg/Kg		☼	D	Total/NA
Lead	43.2		.8	.45	mg/Kg		☼	D	Total/NA
Magnesium	740		400	95.0	mg/Kg		☼	D	Total/NA
Manganese	42		4.2	.32	mg/Kg		☼	D	Total/NA
Nickel	32.4		.2	.74	mg/Kg		☼	D	Total/NA
Potassium	3280		400	86.2	mg/Kg		☼	D	Total/NA
Sodium	44	J	400		mg/Kg		☼	D	Total/NA
Vanadium	36.2		4.0	.3	mg/Kg		☼	D	Total/NA
Zinc	32		8.4	.5	mg/Kg		☼	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S2-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-8

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	.074		.025	.0059	mg/Kg		✖	7471B	Total/NA

Client Sample ID: DUP1-SOIL-102120

Lab Sample ID: 460-221262-9

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.55		.28	.039	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.29		.28	.1	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.27	J	.28	.059	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.29		.28	.041	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.1		.28	.12	ug/Kg		✖	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.43		.28	.050	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.24	J	.28	.031	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.25	J F1	.28	.050	ug/Kg		✖	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.1	J	.28	.094	ug/Kg		✖	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	.087	J	.28	.071	ug/Kg		✖	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.26	J	.28	.035	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.052	J	.28	.043	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.5		.70	.28	ug/Kg		✖	537 (modified)	Total/NA
Aluminum	7400		55.5	7.9	mg/Kg		✖	D	Total/NA
Antimony	.7	J	5.6	.6	mg/Kg		✖	D	Total/NA
Arsenic	.1		4.2	.85	mg/Kg		✖	D	Total/NA
Barium	41		55.5	5.4	mg/Kg		✖	D	Total/NA
Beryllium	.80		.56	.089	mg/Kg		✖	D	Total/NA
Cadmium	.84	J	.1	.096	mg/Kg		✖	D	Total/NA
Calcium	890		390	3	mg/Kg		✖	D	Total/NA
Chromium	4.8		.8	.0	mg/Kg		✖	D	Total/NA
Cobalt	4.3		3.9	.77	mg/Kg		✖	D	Total/NA
Copper	37.8		.9	.7	mg/Kg		✖	D	Total/NA
Iron	33300		41.6	8.6	mg/Kg		✖	D	Total/NA
Lead	45.7		.8	.45	mg/Kg		✖	D	Total/NA
Magnesium	320		390	93.9	mg/Kg		✖	D	Total/NA
Manganese	47		4.2	.31	mg/Kg		✖	D	Total/NA
Nickel	32.1		.1	.73	mg/Kg		✖	D	Total/NA
Potassium	3270		390	85.2	mg/Kg		✖	D	Total/NA
Sodium	39	J	390		mg/Kg		✖	D	Total/NA
Vanadium	35.9		3.9	.3	mg/Kg		✖	D	Total/NA
Zinc	34		8.3	.5	mg/Kg		✖	D	Total/NA
Mercury	.078		.024	.0056	mg/Kg		✖	7471B	Total/NA

Client Sample ID: S3-SOIL-102120

Lab Sample ID: 460-221262-10

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.10	J	.20	.028	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.079	J	.20	.077	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.080	J	.20	.042	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.063	J	.20	.029	ug/Kg		✖	537 (modified)	Total/NA
Aluminum	5400		42.3	.0	mg/Kg		✖	D	Total/NA
Antimony	.3	J	4.2	.2	mg/Kg		✖	D	Total/NA
Arsenic	8.4		3.2	.65	mg/Kg		✖	D	Total/NA
Barium	50		42.3	4.1	mg/Kg		✖	D	Total/NA
Beryllium	.71		.42	.068	mg/Kg		✖	D	Total/NA
Cadmium	.66	J	.85	.073	mg/Kg		✖	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S3-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-10

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	760			78.1	mg/Kg		✖	D	Total/NA
Chromium	3.1		.1	.5	mg/Kg		✖	D	Total/NA
Cobalt	5.9		.6	.59	mg/Kg		✖	D	Total/NA
Copper	44.3		5.3	.3	mg/Kg		✖	D	Total/NA
Iron	34200		31.7	.8	mg/Kg		✖	D	Total/NA
Lead	5.1		.1	.34	mg/Kg		✖	D	Total/NA
Magnesium	8480			71.5	mg/Kg		✖	D	Total/NA
Manganese	923		3.2	.24	mg/Kg		✖	D	Total/NA
Nickel	33.8		8.5	.56	mg/Kg		✖	D	Total/NA
Potassium				4.9	mg/Kg		✖	D	Total/NA
Vanadium	5.9		.6	.98	mg/Kg		✖	D	Total/NA
Zinc	85.3		.3	.2	mg/Kg		✖	D	Total/NA
Mercury	.017		.017	.0041	mg/Kg		✖	7471B	Total/NA

Client Sample ID: S4-SOIL-102120

Lab Sample ID: 460-221262-11

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.50		.24	.034	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.20	J	.24	.094	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.20	J	.24	.051	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.17	J	.24	.035	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.38		.24	.10	ug/Kg		✖	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.17	J	.24	.044	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.089	J	.24	.027	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.078	J	.24	.044	ug/Kg		✖	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.050	J	.24	.030	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.26	J	.61	.24	ug/Kg		✖	537 (modified)	Total/NA
Aluminum	400		50.8	7.2	mg/Kg		✖	D	Total/NA
Arsenic	.9		3.8	.78	mg/Kg		✖	D	Total/NA
Barium	5		50.8	4.9	mg/Kg		✖	D	Total/NA
Beryllium	.87		.51	.081	mg/Kg		✖	D	Total/NA
Cadmium	.66	J	.0	.088	mg/Kg		✖	D	Total/NA
Calcium	3510		70	93.9	mg/Kg		✖	D	Total/NA
Chromium	.4		.5	.8	mg/Kg		✖	D	Total/NA
Cobalt	5.5		.7	.70	mg/Kg		✖	D	Total/NA
Copper	4.8		.4	.6	mg/Kg		✖	D	Total/NA
Iron	34400		38.1	.2	mg/Kg		✖	D	Total/NA
Lead	5.1		.5	.41	mg/Kg		✖	D	Total/NA
Magnesium	5870		70	86.0	mg/Kg		✖	D	Total/NA
Manganese	596		3.8	.29	mg/Kg		✖	D	Total/NA
Nickel	8.1		.2	.67	mg/Kg		✖	D	Total/NA
Potassium	900		70	78.0	mg/Kg		✖	D	Total/NA
Sodium	5	J	70		mg/Kg		✖	D	Total/NA
Vanadium	33.7		.7	.2	mg/Kg		✖	D	Total/NA
Zinc	78.5		7.6	.4	mg/Kg		✖	D	Total/NA
Mercury	.022		.022	.0051	mg/Kg		✖	7471B	Total/NA

Client Sample ID: S11-SOIL-102120

Lab Sample ID: 460-221262-12

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.27		.27	.038	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.10	J	.27	.10	ug/Kg		✖	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S11-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-12

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	.13	J	.27	.056	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.18	J	.27	.039	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.58		.27	.12	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.41		.27	.048	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.21	J	.27	.030	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.30	F1	.27	.048	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.78	B	.67	.27	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	7400		51.1	7.2	mg/Kg		✱	D	Total/NA
Arsenic	.2		3.8	.79	mg/Kg		✱	D	Total/NA
Barium			51.1	4.9	mg/Kg		✱	D	Total/NA
Beryllium	.71		.51	.082	mg/Kg		✱	D	Total/NA
Cadmium	.63	J	.0	.088	mg/Kg		✱	D	Total/NA
Calcium	500		80	94.4	mg/Kg		✱	D	Total/NA
Chromium	.5		.6	.8	mg/Kg		✱	D	Total/NA
Cobalt	4.1		.8	.71	mg/Kg		✱	D	Total/NA
Copper	.9		.4	.6	mg/Kg		✱	D	Total/NA
Iron	32400		38.3	.3	mg/Kg		✱	D	Total/NA
Lead	4.1		.6	.41	mg/Kg		✱	D	Total/NA
Magnesium	9160		80	86.4	mg/Kg		✱	D	Total/NA
Manganese	83		3.8	.29	mg/Kg		✱	D	Total/NA
Nickel	8.7		.2	.67	mg/Kg		✱	D	Total/NA
Potassium	3210		80	78.4	mg/Kg		✱	D	Total/NA
Sodium		J	80		mg/Kg		✱	D	Total/NA
Vanadium	30.3		.8	.2	mg/Kg		✱	D	Total/NA
Zinc	76.8		7.7	.4	mg/Kg		✱	D	Total/NA
Mercury	.017	J	.023	.0054	mg/Kg		✱	7471B	Total/NA

Client Sample ID: S12-SOIL-102120

Lab Sample ID: 460-221262-13

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.089	J	.24	.034	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.061	J I	.24	.051	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.065	J	.24	.035	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.29		.24	.10	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.17	J	.24	.044	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.073	J	.24	.027	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.13	J	.24	.044	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.45	J B	.61	.24	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	500		37.0	5.2	mg/Kg		✱	D	Total/NA
Arsenic	.2		.8	.57	mg/Kg		✱	D	Total/NA
Barium	3.9		37.0	3.6	mg/Kg		✱	D	Total/NA
Beryllium	.58		.37	.059	mg/Kg		✱	D	Total/NA
Calcium	80		925	8.3	mg/Kg		✱	D	Total/NA
Chromium	4.0		.8	.3	mg/Kg		✱	D	Total/NA
Cobalt	8.1	J	9.2	.51	mg/Kg		✱	D	Total/NA
Copper	5.7		4.6	.2	mg/Kg		✱	D	Total/NA
Iron	3300		7.7	9.1	mg/Kg		✱	D	Total/NA
Lead	.4		.8	.30	mg/Kg		✱	D	Total/NA
Magnesium	3100		925	.6	mg/Kg		✱	D	Total/NA
Manganese	500		.8	.21	mg/Kg		✱	D	Total/NA
Nickel	5.4		7.4	.49	mg/Kg		✱	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S12-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-13

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	40		925	56.8	mg/Kg		✱	D	Total/NA
Thallium	.86	J	3.7	.57	mg/Kg		✱	D	Total/NA
Vanadium	.5		9.2	.86	mg/Kg		✱	D	Total/NA
Zinc	47.5		5.5	.0	mg/Kg		✱	D	Total/NA
Mercury	.031		.020	.0046	mg/Kg		✱	7471B	Total/NA

Client Sample ID: DUP2-SOIL-102120

Lab Sample ID: 460-221262-14

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.38		.25	.035	ug/Kg		✱	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.16	J	.25	.096	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.15	J	.25	.052	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.16	J	.25	.036	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.36		.25	.1	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.17	J	.25	.045	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.066	J	.25	.027	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.099	J	.25	.045	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.033	J	.25	.031	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.32	J B	.62	.25	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	9200		39.3	5.6	mg/Kg		✱	D	Total/NA
Arsenic	7.7		3.0	.60	mg/Kg		✱	D	Total/NA
Barium	4		39.3	3.8	mg/Kg		✱	D	Total/NA
Beryllium	.93		.39	.063	mg/Kg		✱	D	Total/NA
Calcium	3160		984	72.7	mg/Kg		✱	D	Total/NA
Chromium	.0		.0	.4	mg/Kg		✱	D	Total/NA
Cobalt	4.6		9.8	.54	mg/Kg		✱	D	Total/NA
Copper	3.3		4.9	.2	mg/Kg		✱	D	Total/NA
Iron	32300		9.5	.3	mg/Kg		✱	D	Total/NA
Lead	.8		.0	.32	mg/Kg		✱	D	Total/NA
Magnesium	5380		984	.6	mg/Kg		✱	D	Total/NA
Manganese	500		3.0	.22	mg/Kg		✱	D	Total/NA
Nickel	.3		7.9	.52	mg/Kg		✱	D	Total/NA
Potassium	460		984	.4	mg/Kg		✱	D	Total/NA
Selenium	.1	J	3.9	.67	mg/Kg		✱	D	Total/NA
Sodium	90.6	J	984	85.6	mg/Kg		✱	D	Total/NA
Thallium	.91	J	3.9	.61	mg/Kg		✱	D	Total/NA
Vanadium	30.9		9.8	.91	mg/Kg		✱	D	Total/NA
Zinc	72.1		5.9	.1	mg/Kg		✱	D	Total/NA
Mercury	.022		.020	.0046	mg/Kg		✱	7471B	Total/NA

Client Sample ID: S1-SOIL-102120

Lab Sample ID: 460-221262-15

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.19	J	.27	.037	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.084	J	.27	.056	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.10	J	.27	.039	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.30		.27	.1	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.19	J	.27	.048	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.092	J	.27	.029	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.16	J I	.27	.048	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.95	B	.66	.27	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	900		43.4	.1	mg/Kg		✱	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S1-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-15

analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.9		3.3	.67	mg/Kg		✱	D	Total/NA
Barium	46.9		43.4	4.2	mg/Kg		✱	D	Total/NA
Beryllium	.54		.43	.069	mg/Kg		✱	D	Total/NA
Calcium	940	J	80	80.1	mg/Kg		✱	D	Total/NA
Chromium	4.8		.2	.5	mg/Kg		✱	D	Total/NA
Cobalt	.6	J	.8	.60	mg/Kg		✱	D	Total/NA
Copper	.4		5.4	.4	mg/Kg		✱	D	Total/NA
Iron	8700		32.5	.3	mg/Kg		✱	D	Total/NA
Lead	9.4		.2	.35	mg/Kg		✱	D	Total/NA
Magnesium	30		80	73.4	mg/Kg		✱	D	Total/NA
Manganese	88		3.3	.24	mg/Kg		✱	D	Total/NA
Nickel	3.9		8.7	.57	mg/Kg		✱	D	Total/NA
Potassium	40	J	80	.6	mg/Kg		✱	D	Total/NA
Vanadium	3.8		.8	.0	mg/Kg		✱	D	Total/NA
Zinc	45.4		.5	.2	mg/Kg		✱	D	Total/NA
Mercury	.048		.022	.0053	mg/Kg		✱	7471B	Total/NA

Client Sample ID: TB2-102120

Lab Sample ID: 460-221262-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	4	J	5000	83.8	ug/L			D	Total/NA
Zinc	.4	J	30.0	.2	ug/L			D	Total/NA

Client Sample ID: S6A-SOIL-102120

Lab Sample ID: 460-221262-17

analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.22	J	.27	.037	ug/Kg		✱	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.16	J	.27	.10	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.13	J	.27	.039	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.45		.27	.12	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.32		.27	.048	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.40		.27	.029	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.21	J	.27	.048	ug/Kg		✱	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.15	J	.27	.090	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.093	J	.27	.033	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.059	J I	.27	.041	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.8	B	.67	.27	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	.15	J	.27	.052	ug/Kg		✱	537 (modified)	Total/NA
Aluminum			40.3	5.7	mg/Kg		✱	D	Total/NA
Arsenic	8.5		3.0	.62	mg/Kg		✱	D	Total/NA
Barium	5		40.3	3.9	mg/Kg		✱	D	Total/NA
Beryllium	.59		.40	.064	mg/Kg		✱	D	Total/NA
Cadmium	.091	J	.81	.069	mg/Kg		✱	D	Total/NA
Calcium	450			74.4	mg/Kg		✱	D	Total/NA
Chromium	7.0		.0	.4	mg/Kg		✱	D	Total/NA
Cobalt	.8		.1	.56	mg/Kg		✱	D	Total/NA
Copper	7.9		5.0	.3	mg/Kg		✱	D	Total/NA
Iron			30.2	.7	mg/Kg		✱	D	Total/NA
Lead	38.5		.0	.33	mg/Kg		✱	D	Total/NA
Magnesium	3740			8.1	mg/Kg		✱	D	Total/NA
Manganese	722		3.0	.23	mg/Kg		✱	D	Total/NA
Nickel	.7		8.1	.53	mg/Kg		✱	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S6A-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-17

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	360			.8	mg/Kg		✖	D	Total/NA
Thallium	.1	J	4.0	.62	mg/Kg		✖	D	Total/NA
Vanadium	.2		.1	.94	mg/Kg		✖	D	Total/NA
Zinc	95.3		.0	.1	mg/Kg		✖	D	Total/NA
Mercury	.051		.022	.0052	mg/Kg		✖	7471B	Total/NA

Client Sample ID: S6B-SOIL-102120

Lab Sample ID: 460-221262-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.34		.26	.036	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.23	J	.26	.098	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.16	J	.26	.054	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.17	J	.26	.037	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.63		.26	.1	ug/Kg		✖	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.31		.26	.046	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.34		.26	.028	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.17	J	.26	.046	ug/Kg		✖	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.14	J	.26	.085	ug/Kg		✖	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.089	J	.26	.032	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.064	J I	.26	.040	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.3	B	.64	.26	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	.15	J	.26	.050	ug/Kg		✖	537 (modified)	Total/NA
Aluminum			41.9	5.9	mg/Kg		✖	D	Total/NA
Arsenic	8.6		3.1	.64	mg/Kg		✖	D	Total/NA
Barium	9		41.9	4.0	mg/Kg		✖	D	Total/NA
Beryllium	.62		.42	.067	mg/Kg		✖	D	Total/NA
Cadmium	.084	J	.84	.072	mg/Kg		✖	D	Total/NA
Calcium	470		50	77.4	mg/Kg		✖	D	Total/NA
Chromium	7.4		.1	.5	mg/Kg		✖	D	Total/NA
Cobalt	.7		.5	.58	mg/Kg		✖	D	Total/NA
Copper	.9		5.2	.3	mg/Kg		✖	D	Total/NA
Iron			31.4	.6	mg/Kg		✖	D	Total/NA
Lead	39.8		.1	.34	mg/Kg		✖	D	Total/NA
Magnesium	3670		50	70.9	mg/Kg		✖	D	Total/NA
Manganese	714		3.1	.24	mg/Kg		✖	D	Total/NA
Nickel	.7		8.4	.55	mg/Kg		✖	D	Total/NA
Potassium	40		50	4.3	mg/Kg		✖	D	Total/NA
Thallium	.0	J	4.2	.65	mg/Kg		✖	D	Total/NA
Vanadium	7.2		.5	.97	mg/Kg		✖	D	Total/NA
Zinc			.3	.1	mg/Kg		✖	D	Total/NA
Mercury	.053		.020	.0048	mg/Kg		✖	7471B	Total/NA

Client Sample ID: S7A-SOIL-102120

Lab Sample ID: 460-221262-19

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.21	J	.27	.037	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.1	J	.27	.10	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.13	J	.27	.056	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.1	J	.27	.039	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.33		.27	.12	ug/Kg		✖	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.17	J	.27	.048	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.1	J	.27	.029	ug/Kg		✖	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S7A-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-19

analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroundecanoic acid (PFUnA)	.1	J	.27	.048	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.059	J	.27	.033	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.044	J I	.27	.041	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.2	B	.67	.27	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	.067	J	.27	.052	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	9130		41.8	5.9	mg/Kg		✱	D	Total/NA
Arsenic	7.2		3.1	.64	mg/Kg		✱	D	Total/NA
Barium	81.6		41.8	4.0	mg/Kg		✱	D	Total/NA
Beryllium	.43		.42	.067	mg/Kg		✱	D	Total/NA
Cadmium	.31	J	.84	.072	mg/Kg		✱	D	Total/NA
Calcium	4370		50	77.3	mg/Kg		✱	D	Total/NA
Chromium	4.0		.1	.5	mg/Kg		✱	D	Total/NA
Cobalt	8.1	J	.5	.58	mg/Kg		✱	D	Total/NA
Copper	5.2		5.2	.3	mg/Kg		✱	D	Total/NA
Iron	8600		31.4	.6	mg/Kg		✱	D	Total/NA
Lead	3.0		.1	.34	mg/Kg		✱	D	Total/NA
Magnesium	3810		50	70.8	mg/Kg		✱	D	Total/NA
Manganese	447		3.1	.24	mg/Kg		✱	D	Total/NA
Nickel	7.7		8.4	.55	mg/Kg		✱	D	Total/NA
Potassium	470		50	4.2	mg/Kg		✱	D	Total/NA
Selenium	.3	J	4.2	.71	mg/Kg		✱	D	Total/NA
Vanadium	.1		.5	.97	mg/Kg		✱	D	Total/NA
Zinc	76.5		.3	.1	mg/Kg		✱	D	Total/NA
Mercury	.027		.023	.0054	mg/Kg		✱	7471B	Total/NA

Client Sample ID: S7B-SOIL-102120

Lab Sample ID: 460-221262-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.16	J	.25	.035	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.12	J	.25	.053	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.085	J	.25	.036	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.29		.25	.1	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.16	J	.25	.045	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.16	J	.25	.028	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.12	J	.25	.045	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.056	J	.25	.031	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.1	B	.63	.25	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	.075	J	.25	.049	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	9790		38.5	5.5	mg/Kg		✱	D	Total/NA
Arsenic	7.4		.9	.59	mg/Kg		✱	D	Total/NA
Barium	83.5		38.5	3.7	mg/Kg		✱	D	Total/NA
Beryllium	.43		.39	.062	mg/Kg		✱	D	Total/NA
Cadmium	.26	J	.77	.066	mg/Kg		✱	D	Total/NA
Calcium	5300		963	71.2	mg/Kg		✱	D	Total/NA
Chromium	5.8		.9	.4	mg/Kg		✱	D	Total/NA
Cobalt	8.7	J	9.6	.53	mg/Kg		✱	D	Total/NA
Copper	4.9		4.8	.2	mg/Kg		✱	D	Total/NA
Iron			8.9	9.8	mg/Kg		✱	D	Total/NA
Lead	5.7		.9	.31	mg/Kg		✱	D	Total/NA
Magnesium	4330		963	5.2	mg/Kg		✱	D	Total/NA
Manganese	491		.9	.22	mg/Kg		✱	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S7B-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-20

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	9.3		7.7	.51	mg/Kg		✖	D	Total/NA
Potassium	430		963	59.2	mg/Kg		✖	D	Total/NA
Thallium	.96	J	3.9	.60	mg/Kg		✖	D	Total/NA
Vanadium	.9		9.6	.90	mg/Kg		✖	D	Total/NA
Zinc	78.9		5.8	.1	mg/Kg		✖	D	Total/NA
Mercury	.034		.021	.0050	mg/Kg		✖	7471B	Total/NA

Client Sample ID: S8A-SOIL-102120

Lab Sample ID: 460-221262-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.10	J	.24	.034	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.20	J	.24	.093	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.24		.24	.051	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.090	J	.24	.035	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.39		.24	.10	ug/Kg		✖	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.4		.24	.043	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.91		.24	.027	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.8		.24	.043	ug/Kg		✖	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.47		.24	.081	ug/Kg		✖	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	.31		.24	.062	ug/Kg		✖	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	.14	J	.24	.065	ug/Kg		✖	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.15	J	.24	.030	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.2	B	.60	.24	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	5.9		.24	.047	ug/Kg		✖	537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	.4	J	.4	.45	ug/Kg		✖	537 (modified)	Total/NA
Aluminum	7790		42.3	.0	mg/Kg		✖	D	Total/NA
Arsenic	.5		3.2	.65	mg/Kg		✖	D	Total/NA
Barium	88.2		42.3	4.1	mg/Kg		✖	D	Total/NA
Beryllium	.31	J	.42	.068	mg/Kg		✖	D	Total/NA
Cadmium	.23	J	.85	.073	mg/Kg		✖	D	Total/NA
Calcium	3320			78.2	mg/Kg		✖	D	Total/NA
Chromium	5.8		.1	.5	mg/Kg		✖	D	Total/NA
Cobalt	.1	J	.6	.59	mg/Kg		✖	D	Total/NA
Copper	32.6		5.3	.3	mg/Kg		✖	D	Total/NA
Iron	4200		31.7	.8	mg/Kg		✖	D	Total/NA
Lead	48.8		.1	.34	mg/Kg		✖	D	Total/NA
Magnesium	550			71.6	mg/Kg		✖	D	Total/NA
Manganese	332		3.2	.24	mg/Kg		✖	D	Total/NA
Nickel	5.6		8.5	.56	mg/Kg		✖	D	Total/NA
Potassium	960	J		5.0	mg/Kg		✖	D	Total/NA
Sodium	50	J		92.1	mg/Kg		✖	D	Total/NA
Vanadium	3.4		.6	.98	mg/Kg		✖	D	Total/NA
Zinc	96.9		.3	.2	mg/Kg		✖	D	Total/NA
Mercury	.076		.021	.0050	mg/Kg		✖	7471B	Total/NA

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.20	J	.24	.034	ug/Kg		✖	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.28		.24	.093	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.28		.24	.051	ug/Kg		✖	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S8B-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-22

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	.13	J	.24	.035	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.42		.24	.10	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.4		.24	.043	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.88		.24	.027	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.8		.24	.043	ug/Kg		✱	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.35		.24	.081	ug/Kg		✱	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	.26		.24	.061	ug/Kg		✱	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	.13	J	.24	.065	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.12	J	.24	.030	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.5	B	.60	.24	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	5.7		.24	.047	ug/Kg		✱	537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	.5	J	.4	.45	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	7530		39.5	5.6	mg/Kg		✱	D	Total/NA
Arsenic	9.9		3.0	.61	mg/Kg		✱	D	Total/NA
Barium	86.8		39.5	3.8	mg/Kg		✱	D	Total/NA
Beryllium	.31	J	.40	.063	mg/Kg		✱	D	Total/NA
Cadmium	.23	J	.79	.068	mg/Kg		✱	D	Total/NA
Calcium	3120		989	73.1	mg/Kg		✱	D	Total/NA
Chromium	5.3		.0	.4	mg/Kg		✱	D	Total/NA
Cobalt	5.8	J	9.9	.55	mg/Kg		✱	D	Total/NA
Copper	32.6		4.9	.2	mg/Kg		✱	D	Total/NA
Iron	4200		9.7	.4	mg/Kg		✱	D	Total/NA
Lead	73.0		.0	.32	mg/Kg		✱	D	Total/NA
Magnesium	460		989	.9	mg/Kg		✱	D	Total/NA
Manganese	341		3.0	.22	mg/Kg		✱	D	Total/NA
Nickel	5.5		7.9	.52	mg/Kg		✱	D	Total/NA
Potassium	858	J	989	.7	mg/Kg		✱	D	Total/NA
Sodium	32	J	989	86.0	mg/Kg		✱	D	Total/NA
Vanadium	3.3		9.9	.92	mg/Kg		✱	D	Total/NA
Zinc	91.6		5.9	.1	mg/Kg		✱	D	Total/NA
Mercury	.080		.020	.0047	mg/Kg		✱	7471B	Total/NA

Client Sample ID: S9A-SOIL-102120

Lab Sample ID: 460-221262-23

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.24	J B	.25	.035	ug/Kg		✱	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.21	J	.25	.097	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.22	J	.25	.053	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.15	J	.25	.036	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.54		.25	.1	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.23	J	.25	.045	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.25		.25	.028	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.22	J	.25	.045	ug/Kg		✱	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.12	J	.25	.084	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.092	J	.25	.031	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.075	J I	.25	.039	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.0	B *	.63	.25	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	.19	J *	.25	.049	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	.7	H B	.64	.26	ug/Kg		✱	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S9A-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-23

analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanesulfonic acid (PFDS) RE	.18	J H	.26	.050	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	9210		41.1	5.8	mg/Kg		✱	D	Total/NA
Arsenic	7.8		3.1	.63	mg/Kg		✱	D	Total/NA
Barium			41.1	4.0	mg/Kg		✱	D	Total/NA
Beryllium	.43		.41	.066	mg/Kg		✱	D	Total/NA
Cadmium	.18	J	.82	.071	mg/Kg		✱	D	Total/NA
Calcium	3930		30	76.0	mg/Kg		✱	D	Total/NA
Chromium	5.5		.1	.5	mg/Kg		✱	D	Total/NA
Cobalt	8.2	J	.3	.57	mg/Kg		✱	D	Total/NA
Copper	8.1		5.1	.3	mg/Kg		✱	D	Total/NA
Iron	8000		30.9	.2	mg/Kg		✱	D	Total/NA
Lead	34.2		.1	.33	mg/Kg		✱	D	Total/NA
Magnesium	3460		30	9.6	mg/Kg		✱	D	Total/NA
Manganese	432		3.1	.23	mg/Kg		✱	D	Total/NA
Nickel	8.9		8.2	.54	mg/Kg		✱	D	Total/NA
Potassium	300		30	3.2	mg/Kg		✱	D	Total/NA
Selenium	.92	J	4.1	.70	mg/Kg		✱	D	Total/NA
Sodium		J	30	89.5	mg/Kg		✱	D	Total/NA
Vanadium	4.2		.3	.96	mg/Kg		✱	D	Total/NA
Zinc	4		.2	.1	mg/Kg		✱	D	Total/NA
Mercury	.086		.022	.0052	mg/Kg		✱	7471B	Total/NA

Client Sample ID: S9B-SOIL-102120

Lab Sample ID: 460-221262-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.19	J B	.25	.035	ug/Kg		✱	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.20	J	.25	.096	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.20	J	.25	.053	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.15	J	.25	.036	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.60		.25	.1	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.24	J	.25	.045	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.27		.25	.028	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.22	J F1	.25	.045	ug/Kg		✱	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.14	J	.25	.084	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.079	J	.25	.031	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	.073	J	.25	.039	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.9	B *	.63	.25	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	.16	J *	.25	.049	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	.9	H B	.64	.26	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS) RE	.20	J H	.26	.050	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	300		39.1	5.5	mg/Kg		✱	D	Total/NA
Arsenic	7.8		.9	.60	mg/Kg		✱	D	Total/NA
Barium	3		39.1	3.8	mg/Kg		✱	D	Total/NA
Beryllium	.45		.39	.062	mg/Kg		✱	D	Total/NA
Cadmium	.15	J	.78	.067	mg/Kg		✱	D	Total/NA
Calcium	4120		976	72.2	mg/Kg		✱	D	Total/NA
Chromium	.4		.0	.4	mg/Kg		✱	D	Total/NA
Cobalt	8.4	J	9.8	.54	mg/Kg		✱	D	Total/NA
Copper	9.1		4.9	.2	mg/Kg		✱	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S9B-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-24

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	9700		9.3	.1	mg/Kg		✱	D	Total/NA
Lead	36.5		.0	.32	mg/Kg		✱	D	Total/NA
Magnesium	3630		976	.1	mg/Kg		✱	D	Total/NA
Manganese	441		.9	.22	mg/Kg		✱	D	Total/NA
Nickel	9.3		7.8	.51	mg/Kg		✱	D	Total/NA
Potassium	520		976	59.9	mg/Kg		✱	D	Total/NA
Selenium	.80	J	3.9	.66	mg/Kg		✱	D	Total/NA
Sodium	3	J	976	84.9	mg/Kg		✱	D	Total/NA
Thallium	.86	J	3.9	.61	mg/Kg		✱	D	Total/NA
Vanadium	.1		9.8	.91	mg/Kg		✱	D	Total/NA
Zinc			5.9	.1	mg/Kg		✱	D	Total/NA
Mercury	.068		.021	.0050	mg/Kg		✱	7471B	Total/NA

Client Sample ID: Equipment Blank 102120

Lab Sample ID: 460-221262-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	94	J	5000	83.8	ug/L			D	Total/NA
Zinc	.2	J	30.0	.2	ug/L			D	Total/NA

Client Sample ID: Field Blank 102120

Lab Sample ID: 460-221262-26

No Detections.

Client Sample ID: S5-Soil-102120

Lab Sample ID: 460-221262-27

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.71	B	.26	.037	ug/Kg		✱	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	.31		.26	.10	ug/Kg		✱	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.23	J	.26	.055	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.29		.26	.038	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.93		.26	.1	ug/Kg		✱	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.49		.26	.047	ug/Kg		✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.35		.26	.029	ug/Kg		✱	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.28		.26	.047	ug/Kg		✱	537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	.16	J	.26	.088	ug/Kg		✱	537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	.10	J	.26	.067	ug/Kg		✱	537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	.093	J	.26	.071	ug/Kg		✱	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	.075	J	.26	.033	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.7	B *	.66	.26	ug/Kg		✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	.4	H B	.68	.27	ug/Kg		✱	537 (modified)	Total/NA
Aluminum	9780		45.5	.4	mg/Kg		✱	D	Total/NA
Arsenic	.5		3.4	.70	mg/Kg		✱	D	Total/NA
Barium	80.2		45.5	4.4	mg/Kg		✱	D	Total/NA
Beryllium	.52		.46	.073	mg/Kg		✱	D	Total/NA
Cadmium	.30	J	.91	.079	mg/Kg		✱	D	Total/NA
Calcium	4120		40	84.1	mg/Kg		✱	D	Total/NA
Chromium	7.5		.3	.6	mg/Kg		✱	D	Total/NA
Cobalt	8.7	J	.4	.63	mg/Kg		✱	D	Total/NA
Copper	32.5		5.7	.4	mg/Kg		✱	D	Total/NA
Iron			34.1	3.4	mg/Kg		✱	D	Total/NA
Lead	70.0		.3	.37	mg/Kg		✱	D	Total/NA
Magnesium	970		40	77.1	mg/Kg		✱	D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S5-Soil-102120 (Continued)

Lab Sample ID: 460-221262-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	425		3.4	.26	mg/Kg		✖	D	Total/NA
Nickel	8.7		9.1	.60	mg/Kg		✖	D	Total/NA
Potassium	410		40	9.9	mg/Kg		✖	D	Total/NA
Thallium	.80	J	4.6	.71	mg/Kg		✖	D	Total/NA
Vanadium	.2		.4	.1	mg/Kg		✖	D	Total/NA
Zinc	50		.8	.2	mg/Kg		✖	D	Total/NA
Mercury	.17		.023	.0055	mg/Kg		✖	7471B	Total/NA

Client Sample ID: S10-Soil-102120

Lab Sample ID: 460-221262-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.15	J B	.31	.043	ug/Kg		✖	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	.1	J	.31	.065	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	.071	J	.31	.045	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	.19	J	.31	.13	ug/Kg		✖	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	.13	J	.31	.056	ug/Kg		✖	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	.20	J	.31	.034	ug/Kg		✖	537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	.22	J	.31	.056	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	.4	B *	.78	.31	ug/Kg		✖	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RE	.2	H B	.75	.30	ug/Kg		✖	537 (modified)	Total/NA
Aluminum	400		.6	8.7	mg/Kg		✖	D	Total/NA
Arsenic	7.4		4.6	.95	mg/Kg		✖	D	Total/NA
Barium	95.3		.6	5.9	mg/Kg		✖	D	Total/NA
Beryllium	.14	J	.62	.099	mg/Kg		✖	D	Total/NA
Cadmium	.34	J	.2	.1	mg/Kg		✖	D	Total/NA
Calcium	840		540	4	mg/Kg		✖	D	Total/NA
Chromium	.2		3.1	.2	mg/Kg		✖	D	Total/NA
Cobalt	9.8	J	5.4	.85	mg/Kg		✖	D	Total/NA
Copper	90.7		7.7	.9	mg/Kg		✖	D	Total/NA
Iron	3900		46.2	31.7	mg/Kg		✖	D	Total/NA
Lead	36		3.1	.50	mg/Kg		✖	D	Total/NA
Magnesium	3790		540	4	mg/Kg		✖	D	Total/NA
Manganese	547		4.6	.35	mg/Kg		✖	D	Total/NA
Nickel	5.6		.3	.81	mg/Kg		✖	D	Total/NA
Potassium			540	94.5	mg/Kg		✖	D	Total/NA
Vanadium	5.6		5.4	.4	mg/Kg		✖	D	Total/NA
Zinc			9.2	.7	mg/Kg		✖	D	Total/NA
Mercury	.6		.072	.017	mg/Kg	3	✖	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: PC1-SOIL-102120

Lab Sample ID: 460-221262-1

Date Collected: 10/21/20 08:45

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 58.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.26	J	.33	.046	ug/Kg	✱	12:18	5/20 15:43	
Perfluoropentanoic acid (PFPeA)	0.20	J	.33	.13	ug/Kg	✱	12:18	5/20 15:43	
Perfluorohexanoic acid (PFHxA)	0.27	J	.33	.069	ug/Kg	✱	12:18	5/20 15:43	
Perfluoroheptanoic acid (PFHpA)	0.18	J	.33	.048	ug/Kg	✱	12:18	5/20 15:43	
Perfluorooctanoic acid (PFOA)	0.63		.33	.14	ug/Kg	✱	12:18	5/20 15:43	
Perfluorononanoic acid (PFNA)	0.27	J	.33	.059	ug/Kg	✱	12:18	5/20 15:43	
Perfluorodecanoic acid (PFDA)	0.37		.33	.036	ug/Kg	✱	12:18	5/20 15:43	
Perfluoroundecanoic acid (PFUnA)	0.18	J	.33	.059	ug/Kg	✱	12:18	5/20 15:43	
Perfluorododecanoic acid (PFDoA)	ND		.33	.1	ug/Kg	✱	12:18	5/20 15:43	
Perfluorotridecanoic acid (PFTriA)	ND		.33	.084	ug/Kg	✱	12:18	5/20 15:43	
Perfluorotetradecanoic acid (PFTeA)	ND		.33	.089	ug/Kg	✱	12:18	5/20 15:43	
Perfluorobutanesulfonic acid (PFBS)	ND	G	.51	.51	ug/Kg	✱	12:18	5/20 15:43	
Perfluorohexanesulfonic acid (PFHxS)	0.21	J	.33	.051	ug/Kg	✱	12:18	5/20 15:43	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.33	.058	ug/Kg	✱	12:18	5/20 15:43	
Perfluorooctanesulfonic acid (PFOS)	6.0		.83	.33	ug/Kg	✱	12:18	5/20 15:43	
Perfluorodecanesulfonic acid (PFDS)	ND		.33	.064	ug/Kg	✱	12:18	5/20 15:43	
Perfluorooctanesulfonamide (FOSA)	ND		.33	.14	ug/Kg	✱	12:18	5/20 15:43	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.3	.64	ug/Kg	✱	12:18	5/20 15:43	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.3	.61	ug/Kg	✱	12:18	5/20 15:43	
:2 FTS	ND		3.3	.25	ug/Kg	✱	12:18	5/20 15:43	
8:2 FTS	ND		3.3	.41	ug/Kg	✱	12:18	5/20 15:43	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	49		150	11/02/20 12:18	11/05/20 15:43	1
13C5 PFPeA	8		150	11/02/20 12:18	11/05/20 15:43	1
13C2 PFHxA	80		150	11/02/20 12:18	11/05/20 15:43	1
13C4 PFHpA	80		150	11/02/20 12:18	11/05/20 15:43	1
13C4 PFOA	83		150	11/02/20 12:18	11/05/20 15:43	1
13C5 PFNA	83		150	11/02/20 12:18	11/05/20 15:43	1
13C2 PFDA	82		150	11/02/20 12:18	11/05/20 15:43	1
13C2 PFUnA	86		150	11/02/20 12:18	11/05/20 15:43	1
13C2 PFDoA	83		150	11/02/20 12:18	11/05/20 15:43	1
13C2 PFTeDA	74		150	11/02/20 12:18	11/05/20 15:43	1
13C3 PFBS	74		150	11/02/20 12:18	11/05/20 15:43	1
18O2 PFHxS	82		150	11/02/20 12:18	11/05/20 15:43	1
13C4 PFOS	81		150	11/02/20 12:18	11/05/20 15:43	1
13C8 FOSA	65		150	11/02/20 12:18	11/05/20 15:43	1
d3-NMeFOSAA	72		150	11/02/20 12:18	11/05/20 15:43	1
NEtFOSAA	74		150	11/02/20 12:18	11/05/20 15:43	1
M2-6:2 FTS	188	*5	150	11/02/20 12:18	11/05/20 15:43	1
M2-8:2 FTS	09	*5	150	11/02/20 12:18	11/05/20 15:43	1

General Chemistry

Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	41.4		.1	.1	%			8/20 13:1	
Percent Solids	58.6		.1	.1	%			8/20 13:1	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: TB1-102120

Lab Sample ID: 460-221262-2

Date Collected: 10/21/20 00:00

Matrix: W ter

Date Received: 10/23/20 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6	.2	ng/L		7/20 18:39	8/20 23:33	
Perfluoropentanoic acid (PFPeA)	ND		.8	.45	ng/L		7/20 18:39	8/20 23:33	
Perfluorohexanoic acid (PFHxA)	ND		.8	.54	ng/L		7/20 18:39	8/20 23:33	
Perfluoroheptanoic acid (PFHpA)	ND		.8	.23	ng/L		7/20 18:39	8/20 23:33	
Perfluorooctanoic acid (PFOA)	ND		.8	.78	ng/L		7/20 18:39	8/20 23:33	
Perfluorononanoic acid (PFNA)	ND		.8	.25	ng/L		7/20 18:39	8/20 23:33	
Perfluorodecanoic acid (PFDA)	ND		.8	.29	ng/L		7/20 18:39	8/20 23:33	
Perfluoroundecanoic acid (PFUnA)	ND		.8	.0	ng/L		7/20 18:39	8/20 23:33	
Perfluorododecanoic acid (PFDoA)	ND		.8	.51	ng/L		7/20 18:39	8/20 23:33	
Perfluorotridecanoic acid (PFTriA)	ND		.8	.2	ng/L		7/20 18:39	8/20 23:33	
Perfluorotetradecanoic acid (PFTeA)	ND		.8	.67	ng/L		7/20 18:39	8/20 23:33	
Perfluorobutanesulfonic acid (PFBS)	ND		.8	.18	ng/L		7/20 18:39	8/20 23:33	
Perfluorohexanesulfonic acid (PFHxS)	ND		.8	.53	ng/L		7/20 18:39	8/20 23:33	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.8	.18	ng/L		7/20 18:39	8/20 23:33	
Perfluorooctanesulfonic acid (PFOS)	ND		.8	.50	ng/L		7/20 18:39	8/20 23:33	
Perfluorodecanesulfonic acid (PFDS)	ND		.8	.30	ng/L		7/20 18:39	8/20 23:33	
Perfluorooctanesulfonamide (FOSA)	ND		.8	.90	ng/L		7/20 18:39	8/20 23:33	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	.1	ng/L		7/20 18:39	8/20 23:33	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	.2	ng/L		7/20 18:39	8/20 23:33	
:2 FTS	ND		4.6	.3	ng/L		7/20 18:39	8/20 23:33	
8:2 FTS	ND		.8	.42	ng/L		7/20 18:39	8/20 23:33	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	77		150	10/27/20 18:39	10/28/20 23:33	1
13C5 PFPeA	82		150	10/27/20 18:39	10/28/20 23:33	1
13C2 PFHxA	88		150	10/27/20 18:39	10/28/20 23:33	1
13C4 PFHpA	88		150	10/27/20 18:39	10/28/20 23:33	1
13C4 PFOA	6		150	10/27/20 18:39	10/28/20 23:33	1
13C5 PFNA	4		150	10/27/20 18:39	10/28/20 23:33	1
13C2 PFDA	0		150	10/27/20 18:39	10/28/20 23:33	1
13C2 PFUnA	89		150	10/27/20 18:39	10/28/20 23:33	1
13C2 PFDoA			150	10/27/20 18:39	10/28/20 23:33	1
13C2 PFTeDA	1		150	10/27/20 18:39	10/28/20 23:33	1
13C3 PFBS	83		150	10/27/20 18:39	10/28/20 23:33	1
18O2 PFHxS	86		150	10/27/20 18:39	10/28/20 23:33	1
13C4 PFOS	86		150	10/27/20 18:39	10/28/20 23:33	1
13C8 FOSA	81		150	10/27/20 18:39	10/28/20 23:33	1
d3-NMeFOSAA	76		150	10/27/20 18:39	10/28/20 23:33	1
NEtFOSAA	4		150	10/27/20 18:39	10/28/20 23:33	1
M2-6:2 FTS	70		150	10/27/20 18:39	10/28/20 23:33	1
M2-8:2 FTS	74		150	10/27/20 18:39	10/28/20 23:33	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND			76.9	ug/L		4/20 20:00	16:57	
Antimony	ND		.0	3.7	ug/L		4/20 20:00	16:57	
Arsenic	ND		5.0	3.3	ug/L		4/20 20:00	16:57	
Barium	ND			3.2	ug/L		4/20 20:00	16:57	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: TB1-102120

Lab Sample ID: 460-221262-2

Date Collected: 10/21/20 00:00

Matrix: W ter

Date Received: 10/23/20 10:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		.0	.17	ug/L		4/20 20:00	16:57	
Cadmium	ND		4.0	.33	ug/L		4/20 20:00	16:57	
Calcium	ND		5000	52	ug/L		4/20 20:00	16:57	
Chromium	ND		.0	5.0	ug/L		4/20 20:00	16:57	
Cobalt	ND		50.0	.0	ug/L		4/20 20:00	16:57	
Copper	ND		5.0	.9	ug/L		4/20 20:00	16:57	
Iron	ND		50	80.8	ug/L		4/20 20:00	16:57	
Lead	ND		.0	.4	ug/L		4/20 20:00	16:57	
Magnesium	ND		5000	42	ug/L		4/20 20:00	16:57	
Manganese	ND		5.0	.76	ug/L		4/20 20:00	16:57	
Nickel	ND		40.0	4.1	ug/L		4/20 20:00	16:57	
Potassium	ND		5000	42	ug/L		4/20 20:00	16:57	
Selenium	ND		.0	5.9	ug/L		4/20 20:00	16:57	
Silver	ND		.0	5.8	ug/L		4/20 20:00	16:57	
Sodium	168	J	5000	83.8	ug/L		4/20 20:00	16:57	
Thallium	ND		.0	4.1	ug/L		4/20 20:00	16:57	
Vanadium	ND		50.0	7.2	ug/L		4/20 20:00	16:57	
Zinc	1.4	J	30.0	.2	ug/L		4/20 20:00	16:57	

Method: 7470A - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		.20	.091	ug/L		8/20 12:28	8/20 14:19	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND	H H3	.0	8.1	ug/L			3/20 16:30	

Client Sample ID: PC2-SOIL-102120

Lab Sample ID: 460-221262-3

Date Collected: 10/21/20 09:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.54		.24	.033	ug/Kg	✱	12:18	5/20 15:53	
Perfluoropentanoic acid (PFPeA)	0.22	J	.24	.091	ug/Kg	✱	12:18	5/20 15:53	
Perfluorohexanoic acid (PFHxA)	0.20	J	.24	.050	ug/Kg	✱	12:18	5/20 15:53	
Perfluoroheptanoic acid (PFHpA)	0.23	J	.24	.034	ug/Kg	✱	12:18	5/20 15:53	
Perfluorooctanoic acid (PFOA)	0.75		.24	.10	ug/Kg	✱	12:18	5/20 15:53	
Perfluorononanoic acid (PFNA)	0.25		.24	.043	ug/Kg	✱	12:18	5/20 15:53	
Perfluorodecanoic acid (PFDA)	0.15	J	.24	.026	ug/Kg	✱	12:18	5/20 15:53	
Perfluoroundecanoic acid (PFUnA)	0.11	J	.24	.043	ug/Kg	✱	12:18	5/20 15:53	
Perfluorododecanoic acid (PFDoA)	ND		.24	.079	ug/Kg	✱	12:18	5/20 15:53	
Perfluorotridecanoic acid (PFTriA)	ND		.24	.060	ug/Kg	✱	12:18	5/20 15:53	
Perfluorotetradecanoic acid (PFTeA)	ND		.24	.064	ug/Kg	✱	12:18	5/20 15:53	
Perfluorobutanesulfonic acid (PFBS)	ND		.24	.030	ug/Kg	✱	12:18	5/20 15:53	
Perfluorohexanesulfonic acid (PFHxS)	0.053	J	.24	.037	ug/Kg	✱	12:18	5/20 15:53	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.24	.041	ug/Kg	✱	12:18	5/20 15:53	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: PC2-SOIL-102120

Lab Sample ID: 460-221262-3

Date Collected: 10/21/20 09:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.8

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1.3		.59	.24	ug/Kg	✱	12:18	5/20 15:53	
Perfluorodecanesulfonic acid (PFDS)	0.078	J	.24	.046	ug/Kg	✱	12:18	5/20 15:53	
Perfluorooctanesulfonamide (FOSA)	ND		.24	.097	ug/Kg	✱	12:18	5/20 15:53	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.4	.46	ug/Kg	✱	12:18	5/20 15:53	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.4	.44	ug/Kg	✱	12:18	5/20 15:53	
:2 FTS	ND		.4	.18	ug/Kg	✱	12:18	5/20 15:53	
8:2 FTS	ND		.4	.30	ug/Kg	✱	12:18	5/20 15:53	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	8		150				11/02/20 12:18	11/05/20 15:53	1
13C5 PFPeA	63		150				11/02/20 12:18	11/05/20 15:53	1
13C2 PFHxA	84		150				11/02/20 12:18	11/05/20 15:53	1
13C4 PFHpA	84		150				11/02/20 12:18	11/05/20 15:53	1
13C4 PFOA	89		150				11/02/20 12:18	11/05/20 15:53	1
13C5 PFNA	86		150				11/02/20 12:18	11/05/20 15:53	1
13C2 PFDA	84		150				11/02/20 12:18	11/05/20 15:53	1
13C2 PFUnA	86		150				11/02/20 12:18	11/05/20 15:53	1
13C2 PFDoA	87		150				11/02/20 12:18	11/05/20 15:53	1
13C2 PFTeDA	1		150				11/02/20 12:18	11/05/20 15:53	1
13C3 PFBS	73		150				11/02/20 12:18	11/05/20 15:53	1
18O2 PFHxS	85		150				11/02/20 12:18	11/05/20 15:53	1
13C4 PFOS	83		150				11/02/20 12:18	11/05/20 15:53	1
13C8 FOSA	78		150				11/02/20 12:18	11/05/20 15:53	1
d3-NMeFOSAA	70		150				11/02/20 12:18	11/05/20 15:53	1
NEtFOSAA	80		150				11/02/20 12:18	11/05/20 15:53	1
M2-6:2 FTS	159	*5	150				11/02/20 12:18	11/05/20 15:53	1
M2-8:2 FTS	186	*5	150				11/02/20 12:18	11/05/20 15:53	1

General Chemistry

Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.3		.1	.1	%			8/20 13:1	
Percent Solids	79.8		.1	.1	%			8/20 13:1	

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.7

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.28	J	.30	.043	ug/Kg	✱	12:18	5/20 16:02	
Perfluoropentanoic acid (PFPeA)	0.19	J	.30	.12	ug/Kg	✱	12:18	5/20 16:02	
Perfluorohexanoic acid (PFHxA)	0.27	J	.30	.064	ug/Kg	✱	12:18	5/20 16:02	
Perfluoroheptanoic acid (PFHpA)	0.26	J	.30	.044	ug/Kg	✱	12:18	5/20 16:02	
Perfluorooctanoic acid (PFOA)	0.88		.30	.13	ug/Kg	✱	12:18	5/20 16:02	
Perfluorononanoic acid (PFNA)	0.37		.30	.055	ug/Kg	✱	12:18	5/20 16:02	
Perfluorodecanoic acid (PFDA)	0.35		.30	.033	ug/Kg	✱	12:18	5/20 16:02	
Perfluoroundecanoic acid (PFUnA)	0.27	J	.30	.055	ug/Kg	✱	12:18	5/20 16:02	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.7

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	0.15	J	.30	.10	ug/Kg	✱	12:18	5/20 16:02	
Perfluorotridecanoic acid (PFTriA)	0.089	J	.30	.077	ug/Kg	✱	12:18	5/20 16:02	
Perfluorotetradecanoic acid (PFTeA)	ND		.30	.082	ug/Kg	✱	12:18	5/20 16:02	
Perfluorobutanesulfonic acid (PFBS)	0.046	J	.30	.038	ug/Kg	✱	12:18	5/20 16:02	
Perfluorohexanesulfonic acid (PFHxS)	ND		.30	.047	ug/Kg	✱	12:18	5/20 16:02	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.30	.053	ug/Kg	✱	12:18	5/20 16:02	
Perfluorooctanesulfonic acid (PFOS)	1.2		.76	.30	ug/Kg	✱	12:18	5/20 16:02	
Perfluorodecanesulfonic acid (PFDS)	ND		.30	.059	ug/Kg	✱	12:18	5/20 16:02	
Perfluorooctanesulfonamide (FOSA)	ND		.30	.12	ug/Kg	✱	12:18	5/20 16:02	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.0	.59	ug/Kg	✱	12:18	5/20 16:02	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.0	.56	ug/Kg	✱	12:18	5/20 16:02	
:2 FTS	ND		3.0	.23	ug/Kg	✱	12:18	5/20 16:02	
8:2 FTS	ND		3.0	.38	ug/Kg	✱	12:18	5/20 16:02	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA			150	11/02/20 12:18	11/05/20 16:02	1
13C5 PFPeA	7		150	11/02/20 12:18	11/05/20 16:02	1
13C2 PFHxA	72		150	11/02/20 12:18	11/05/20 16:02	1
13C4 PFHpA	74		150	11/02/20 12:18	11/05/20 16:02	1
13C4 PFOA	81		150	11/02/20 12:18	11/05/20 16:02	1
13C5 PFNA	77		150	11/02/20 12:18	11/05/20 16:02	1
13C2 PFDA	78		150	11/02/20 12:18	11/05/20 16:02	1
13C2 PFUnA	83		150	11/02/20 12:18	11/05/20 16:02	1
13C2 PFDoA	76		150	11/02/20 12:18	11/05/20 16:02	1
13C2 PFTeDA	80		150	11/02/20 12:18	11/05/20 16:02	1
13C3 PFBS	65		150	11/02/20 12:18	11/05/20 16:02	1
18O2 PFHxS	71		150	11/02/20 12:18	11/05/20 16:02	1
13C4 PFOS	71		150	11/02/20 12:18	11/05/20 16:02	1
13C8 FOSA	75		150	11/02/20 12:18	11/05/20 16:02	1
d3-NMeFOSAA	70		150	11/02/20 12:18	11/05/20 16:02	1
NEtFOSAA	77		150	11/02/20 12:18	11/05/20 16:02	1
M2-6:2 FTS	144		150	11/02/20 12:18	11/05/20 16:02	1
M2-8:2 FTS	178	*5	150	11/02/20 12:18	11/05/20 16:02	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	21300		.9	8.8	mg/Kg	✱	8/20 02:35	8/20 18:58	
Antimony	ND		.2	.8	mg/Kg	✱	8/20 02:35	8/20 18:58	
Arsenic	7.8		4.6	.95	mg/Kg	✱	8/20 02:35	8/20 18:58	
Barium	152		.9	.0	mg/Kg	✱	8/20 02:35	8/20 18:58	
Beryllium	0.93		.62	.099	mg/Kg	✱	8/20 02:35	8/20 18:58	
Cadmium	0.90	J	.2	.1	mg/Kg	✱	8/20 02:35	8/20 18:58	
Calcium	5940		550	4	mg/Kg	✱	8/20 02:35	8/20 18:58	
Chromium	26.5		3.1	.2	mg/Kg	✱	8/20 02:35	8/20 18:58	
Cobalt	16.1		5.5	.86	mg/Kg	✱	8/20 02:35	8/20 18:58	
Copper	34.3		7.7	.9	mg/Kg	✱	8/20 02:35	8/20 18:58	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.7

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	37800		46.4	31.9	mg/Kg	✱	8/20 02:35	8/20 18:58	
Lea	35.8		3.1	.50	mg/Kg	✱	8/20 02:35	8/20 18:58	
Magnesium	6780		550	5	mg/Kg	✱	8/20 02:35	8/20 18:58	
Manganese	775		4.6	.35	mg/Kg	✱	8/20 02:35	8/20 18:58	
Nickel	34.1		.4	.81	mg/Kg	✱	8/20 02:35	8/20 18:58	
Potassium	3490		550	95.0	mg/Kg	✱	8/20 02:35	8/20 18:58	
Selenium	ND		.2	.1	mg/Kg	✱	8/20 02:35	8/20 18:58	
Silver	ND		3.1	.7	mg/Kg	✱	8/20 02:35	8/20 18:58	
Sodium	163	J	550	35	mg/Kg	✱	8/20 02:35	8/20 18:58	
Thallium	ND		.2	.96	mg/Kg	✱	8/20 02:35	8/20 18:58	
V nadium	38.0		5.5	.4	mg/Kg	✱	8/20 02:35	8/20 18:58	
Zinc	141		9.3	.7	mg/Kg	✱	8/20 02:35	8/20 18:58	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		.025	.0058	mg/Kg	✱	8/20 03:49	8/20 08:28	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		3.2	.56	mg/Kg	✱	9/20 09:04	30/20 1 :13	
Chromium, hexavalent	ND		3.2	.55	mg/Kg	✱	12:08	13:13	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	37.3		.0	.0	%			7/20 13:18	
Percent Solids	62.7		.0	.0	%			7/20 13:18	

Client Sample ID: S14-SOIL-102120

Lab Sample ID: 460-221262-5

Date Collected: 10/21/20 10:50

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.3

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.45		.25	.034	ug/Kg	✱	12:18	5/20 16:1	
Perfluoropentanoic acid (PFPeA)	0.24	J	.25	.094	ug/Kg	✱	12:18	5/20 16:1	
Perfluorohexanoic acid (PFHxA)	0.27		.25	.052	ug/Kg	✱	12:18	5/20 16:1	
Perfluoroheptanoic acid (PFHpA)	0.24	J	.25	.036	ug/Kg	✱	12:18	5/20 16:1	
Perfluorooctanoic acid (PFOA)	1.1		.25	.1	ug/Kg	✱	12:18	5/20 16:1	
Perfluorononanoic acid (PFNA)	0.35		.25	.044	ug/Kg	✱	12:18	5/20 16:1	
Perfluorodecanoic acid (PFDA)	0.27		.25	.027	ug/Kg	✱	12:18	5/20 16:1	
Perfluoroundecanoic acid (PFUnA)	0.20	J	.25	.044	ug/Kg	✱	12:18	5/20 16:1	
Perfluorododecanoic acid (PFDoA)	0.11	J	.25	.082	ug/Kg	✱	12:18	5/20 16:1	
Perfluorotridecanoic acid (PFTriA)	0.090	J	.25	.063	ug/Kg	✱	12:18	5/20 16:1	
Perfluorotetradecanoic acid (PFTeA)	ND		.25	.066	ug/Kg	✱	12:18	5/20 16:1	
Perfluorobutanesulfonic acid (PFBS)	0.044	J	.25	.031	ug/Kg	✱	12:18	5/20 16:1	
Perfluorohexanesulfonic acid (PFHxS)	1.5		.25	.038	ug/Kg	✱	12:18	5/20 16:1	
Perfluoroheptanesulfonic Acid (PFHpS)	0.047	J	.25	.043	ug/Kg	✱	12:18	5/20 16:1	
Perfluorooctanesulfonic acid (PFOS)	9.8		.61	.25	ug/Kg	✱	12:18	5/20 16:1	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S14-SOIL-102120

Lab Sample ID: 460-221262-5

Date Collected: 10/21/20 10:50

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.3

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	ND		.25	.048	ug/Kg	✱	12:18	5/20 16:1	
Perfluorooctanesulfonamide (FOSA)	ND		.25	.10	ug/Kg	✱	12:18	5/20 16:1	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.5	.48	ug/Kg	✱	12:18	5/20 16:1	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.5	.45	ug/Kg	✱	12:18	5/20 16:1	
:2 FTS	ND		.5	.18	ug/Kg	✱	12:18	5/20 16:1	
8:2 FTS	ND		.5	.31	ug/Kg	✱	12:18	5/20 16:1	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA			150				11/02/20 12:18	11/05/20 16:11	1
13C5 PFPeA	8		150				11/02/20 12:18	11/05/20 16:11	1
13C2 PFHxA	77		150				11/02/20 12:18	11/05/20 16:11	1
13C4 PFHpA	76		150				11/02/20 12:18	11/05/20 16:11	1
13C4 PFOA	80		150				11/02/20 12:18	11/05/20 16:11	1
13C5 PFNA	78		150				11/02/20 12:18	11/05/20 16:11	1
13C2 PFDA	75		150				11/02/20 12:18	11/05/20 16:11	1
13C2 PFUnA	69		150				11/02/20 12:18	11/05/20 16:11	1
13C2 PFDoA	64		150				11/02/20 12:18	11/05/20 16:11	1
13C2 PFTeDA	60		150				11/02/20 12:18	11/05/20 16:11	1
13C3 PFBS	61		150				11/02/20 12:18	11/05/20 16:11	1
18O2 PFHxS	69		150				11/02/20 12:18	11/05/20 16:11	1
13C4 PFOS	67		150				11/02/20 12:18	11/05/20 16:11	1
13C8 FOSA	7		150				11/02/20 12:18	11/05/20 16:11	1
d3-NMeFOSAA	6		150				11/02/20 12:18	11/05/20 16:11	1
NEtFOSAA			150				11/02/20 12:18	11/05/20 16:11	1
M2-6:2 FTS	129		150				11/02/20 12:18	11/05/20 16:11	1
M2-8:2 FTS	147		150				11/02/20 12:18	11/05/20 16:11	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16800		47.1	.7	mg/Kg	✱	8/20 02:35	8/20 19:02	
Antimony	1.7	J	4.7	.4	mg/Kg	✱	8/20 02:35	8/20 19:02	
Arsenic	8.1		3.5	.72	mg/Kg	✱	8/20 02:35	8/20 19:02	
Barium	126		47.1	4.5	mg/Kg	✱	8/20 02:35	8/20 19:02	
Beryllium	0.77		.47	.075	mg/Kg	✱	8/20 02:35	8/20 19:02	
Cadmium	0.88	J	.94	.081	mg/Kg	✱	8/20 02:35	8/20 19:02	
Calcium	8900		80	87.1	mg/Kg	✱	8/20 02:35	8/20 19:02	
Chromium	22.7		.4	.7	mg/Kg	✱	8/20 02:35	8/20 19:02	
Cobalt	13.1		.8	.65	mg/Kg	✱	8/20 02:35	8/20 19:02	
Copper	41.2		5.9	.5	mg/Kg	✱	8/20 02:35	8/20 19:02	
Iron	32400		35.4	4.3	mg/Kg	✱	8/20 02:35	8/20 19:02	
Lea	46.5		.4	.38	mg/Kg	✱	8/20 02:35	8/20 19:02	
Magnesium	5700		80	79.8	mg/Kg	✱	8/20 02:35	8/20 19:02	
Manganese	698		3.5	.27	mg/Kg	✱	8/20 02:35	8/20 19:02	
Nickel	26.8		9.4	.62	mg/Kg	✱	8/20 02:35	8/20 19:02	
Potassium	2410		80	72.4	mg/Kg	✱	8/20 02:35	8/20 19:02	
Selenium	ND		4.7	.80	mg/Kg	✱	8/20 02:35	8/20 19:02	
Silver	ND		.4	.3	mg/Kg	✱	8/20 02:35	8/20 19:02	
Sodium	ND		80	3	mg/Kg	✱	8/20 02:35	8/20 19:02	
Thallium	ND		4.7	.73	mg/Kg	✱	8/20 02:35	8/20 19:02	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S14-SOIL-102120

Lab Sample ID: 460-221262-5

Date Collected: 10/21/20 10:50

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.3

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
V nadium	29.6		.8	.	mg/Kg	✱	8/20 02:35	8/20 19:02	
Zinc	160		7.1	.3	mg/Kg	✱	8/20 02:35	8/20 19:02	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		.021	.0049	mg/Kg	✱	8/20 03:49	8/20 08:30	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.5	.44	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		.5	.43	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.7		.0	.0	%			7/20 13:18	
Percent Solids	79.3		.0	.0	%			7/20 13:18	

Client Sample ID: S13-SOIL-102120

Lab Sample ID: 460-221262-6

Date Collected: 10/21/20 11:05

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 78.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.90		.24	.034	ug/Kg	✱	12:18	5/20 16:39	
Perfluoropentanoic acid (PFPeA)	1.6		.24	.093	ug/Kg	✱	12:18	5/20 16:39	
Perfluorohexanoic acid (PFHxA)	1.1		.24	.050	ug/Kg	✱	12:18	5/20 16:39	
Perfluoroheptanoic acid (PFHpA)	1.0		.24	.035	ug/Kg	✱	12:18	5/20 16:39	
Perfluorooctanoic acid (PFOA)	1.1		.24	.10	ug/Kg	✱	12:18	5/20 16:39	
Perfluorononanoic acid (PFNA)	1.2		.24	.043	ug/Kg	✱	12:18	5/20 16:39	
Perfluorodecanoic acid (PFDA)	2.1		.24	.026	ug/Kg	✱	12:18	5/20 16:39	
Perfluoroundecanoic acid (PFUnA)	0.86		.24	.043	ug/Kg	✱	12:18	5/20 16:39	
Perfluorododecanoic acid (PFDoA)	0.28		.24	.081	ug/Kg	✱	12:18	5/20 16:39	
Perfluorotridecanoic acid (PFTriA)	0.11	J	.24	.061	ug/Kg	✱	12:18	5/20 16:39	
Perfluorotetradecanoic acid (PFTeA)	0.066	J	.24	.065	ug/Kg	✱	12:18	5/20 16:39	
Perfluorobutanesulfonic acid (PFBS)	ND		.24	.030	ug/Kg	✱	12:18	5/20 16:39	
Perfluorohexanesulfonic acid (PFHxS)	ND		.24	.037	ug/Kg	✱	12:18	5/20 16:39	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.24	.042	ug/Kg	✱	12:18	5/20 16:39	
Perfluorooctanesulfonic acid (PFOS)	0.65		.60	.24	ug/Kg	✱	12:18	5/20 16:39	
Perfluorodecanesulfonic acid (PFDS)	ND		.24	.047	ug/Kg	✱	12:18	5/20 16:39	
Perfluorooctanesulfonamide (FOSA)	ND		.24	.099	ug/Kg	✱	12:18	5/20 16:39	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.4	.47	ug/Kg	✱	12:18	5/20 16:39	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.4	.44	ug/Kg	✱	12:18	5/20 16:39	
6:2 FTS	0.23	J	.4	.18	ug/Kg	✱	12:18	5/20 16:39	
8:2 FTS	0.70	J	.4	.30	ug/Kg	✱	12:18	5/20 16:39	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA			150				11/02/20 12:18	11/05/20 16:39	1
13C5 PFPeA	62		150				11/02/20 12:18	11/05/20 16:39	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S13-SOIL-102120

Lab Sample ID: 460-221262-6

Date Collected: 10/21/20 11:05

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 78.5

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	86		150	11/02/20 12:18	11/05/20 16:39	1
13C4 PFHpA	84		150	11/02/20 12:18	11/05/20 16:39	1
13C4 PFOA	87		150	11/02/20 12:18	11/05/20 16:39	1
13C5 PFNA	84		150	11/02/20 12:18	11/05/20 16:39	1
13C2 PFDA	83		150	11/02/20 12:18	11/05/20 16:39	1
13C2 PFUnA	84		150	11/02/20 12:18	11/05/20 16:39	1
13C2 PFDoA	86		150	11/02/20 12:18	11/05/20 16:39	1
13C2 PFTeDA	86		150	11/02/20 12:18	11/05/20 16:39	1
13C3 PFBS	72		150	11/02/20 12:18	11/05/20 16:39	1
18O2 PFHxS	80		150	11/02/20 12:18	11/05/20 16:39	1
13C4 PFOS	84		150	11/02/20 12:18	11/05/20 16:39	1
13C8 FOSA	72		150	11/02/20 12:18	11/05/20 16:39	1
d3-NMeFOSAA	69		150	11/02/20 12:18	11/05/20 16:39	1
NEtFOSAA	70		150	11/02/20 12:18	11/05/20 16:39	1
M2-6:2 FTS	145		150	11/02/20 12:18	11/05/20 16:39	1
M2-8:2 FTS	172	*5	150	11/02/20 12:18	11/05/20 16:39	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13100		51.0	7.2	mg/Kg	✱	8/20 02:35	8/20 18:14	
Antimony	ND	F1	5.1	.5	mg/Kg	✱	8/20 02:35	8/20 18:14	
Arsenic	5.1		3.8	.78	mg/Kg	✱	8/20 02:35	8/20 18:14	
Barium	112		51.0	4.9	mg/Kg	✱	8/20 02:35	8/20 18:14	
Beryllium	0.56		.51	.082	mg/Kg	✱	8/20 02:35	8/20 18:14	
Cadmium	0.57	J	.0	.088	mg/Kg	✱	8/20 02:35	8/20 18:14	
Calcium	2160		70	94.2	mg/Kg	✱	8/20 02:35	8/20 18:14	
Chromium	16.9		.5	.8	mg/Kg	✱	8/20 02:35	8/20 18:14	
Cobalt	7.9	J	.7	.71	mg/Kg	✱	8/20 02:35	8/20 18:14	
Copper	22.2		.4	.6	mg/Kg	✱	8/20 02:35	8/20 18:14	
Iron	23300		38.2	.3	mg/Kg	✱	8/20 02:35	8/20 18:14	
Lea	20.1		.5	.41	mg/Kg	✱	8/20 02:35	8/20 18:14	
Magnesium	4330		70	86.3	mg/Kg	✱	8/20 02:35	8/20 18:14	
Manganese	893		3.8	.29	mg/Kg	✱	8/20 02:35	8/20 18:14	
Nickel	19.6		.2	.67	mg/Kg	✱	8/20 02:35	8/20 18:14	
Potassium	1170	J	70	78.3	mg/Kg	✱	8/20 02:35	8/20 18:14	
Selenium	ND		5.1	.87	mg/Kg	✱	8/20 02:35	8/20 18:14	
Silver	ND		.5	.4	mg/Kg	✱	8/20 02:35	8/20 18:14	
Sodium	512	J	70		mg/Kg	✱	8/20 02:35	8/20 18:14	
Thallium	ND		5.1	.79	mg/Kg	✱	8/20 02:35	8/20 18:14	
V nadium	22.2		.7	.2	mg/Kg	✱	8/20 02:35	8/20 18:14	
Zinc	112		7.6	.4	mg/Kg	✱	8/20 02:35	8/20 18:14	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		.021	.0050	mg/Kg	✱	8/20 03:49	8/20 08:20	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND	F1	.5	.44	mg/Kg	✱	9/20 09:04	30/20 1 :13	
Chromium, hexavalent	ND	F1	.5	.44	mg/Kg	✱	12:08	13:13	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S13-SOIL-102120

Lab Sample ID: 460-221262-6

Date Collected: 10/21/20 11:05

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 78.5

Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.5		.0	.0	%			7/20 13:18	
Percent Solids	78.5		.0	.0	%			7/20 13:18	

Client Sample ID: S16-SOIL-102120

Lab Sample ID: 460-221262-7

Date Collected: 10/21/20 11:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.45		.24	.034	ug/Kg	✱	12:18	5/20 17:07	
Perfluoropentanoic acid (PFPeA)	0.17	J	.24	.092	ug/Kg	✱	12:18	5/20 17:07	
Perfluorohexanoic acid (PFHxA)	0.19	J	.24	.050	ug/Kg	✱	12:18	5/20 17:07	
Perfluoroheptanoic acid (PFHpA)	0.19	J	.24	.035	ug/Kg	✱	12:18	5/20 17:07	
Perfluorooctanoic acid (PFOA)	0.52		.24	.10	ug/Kg	✱	12:18	5/20 17:07	
Perfluorononanoic acid (PFNA)	0.29		.24	.043	ug/Kg	✱	12:18	5/20 17:07	
Perfluorodecanoic acid (PFDA)	0.21	J	.24	.026	ug/Kg	✱	12:18	5/20 17:07	
Perfluoroundecanoic acid (PFUnA)	0.14	J	.24	.043	ug/Kg	✱	12:18	5/20 17:07	
Perfluorododecanoic acid (PFDoA)	0.089	J	.24	.080	ug/Kg	✱	12:18	5/20 17:07	
Perfluorotridecanoic acid (PFTriA)	ND		.24	.061	ug/Kg	✱	12:18	5/20 17:07	
Perfluorotetradecanoic acid (PFTeA)	ND		.24	.065	ug/Kg	✱	12:18	5/20 17:07	
Perfluorobutanesulfonic acid (PFBS)	0.11	J	.24	.030	ug/Kg	✱	12:18	5/20 17:07	
Perfluorohexanesulfonic acid (PFHxS)	ND		.24	.037	ug/Kg	✱	12:18	5/20 17:07	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.24	.042	ug/Kg	✱	12:18	5/20 17:07	
Perfluorooctanesulfonic acid (PFOS)	0.65		.60	.24	ug/Kg	✱	12:18	5/20 17:07	
Perfluorodecanesulfonic acid (PFDS)	ND		.24	.047	ug/Kg	✱	12:18	5/20 17:07	
Perfluorooctanesulfonamide (FOSA)	ND		.24	.098	ug/Kg	✱	12:18	5/20 17:07	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.4	.47	ug/Kg	✱	12:18	5/20 17:07	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.4	.44	ug/Kg	✱	12:18	5/20 17:07	
:2 FTS	ND		.4	.18	ug/Kg	✱	12:18	5/20 17:07	
8:2 FTS	ND		.4	.30	ug/Kg	✱	12:18	5/20 17:07	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	49		150	11/02/20 12:18	11/05/20 17:07	1
13C5 PFPeA	3		150	11/02/20 12:18	11/05/20 17:07	1
13C2 PFHxA	74		150	11/02/20 12:18	11/05/20 17:07	1
13C4 PFHpA	75		150	11/02/20 12:18	11/05/20 17:07	1
13C4 PFOA	81		150	11/02/20 12:18	11/05/20 17:07	1
13C5 PFNA	78		150	11/02/20 12:18	11/05/20 17:07	1
13C2 PFDA	75		150	11/02/20 12:18	11/05/20 17:07	1
13C2 PFUnA	69		150	11/02/20 12:18	11/05/20 17:07	1
13C2 PFDoA	61		150	11/02/20 12:18	11/05/20 17:07	1
13C2 PFTeDA	61		150	11/02/20 12:18	11/05/20 17:07	1
13C3 PFBS			150	11/02/20 12:18	11/05/20 17:07	1
18O2 PFHxS	66		150	11/02/20 12:18	11/05/20 17:07	1
13C4 PFOS	65		150	11/02/20 12:18	11/05/20 17:07	1
13C8 FOSA	8		150	11/02/20 12:18	11/05/20 17:07	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S16-SOIL-102120

Lab Sample ID: 460-221262-7

Date Collected: 10/21/20 11:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.6

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA			150	11/02/20 12:18	11/05/20 17:07	1
NEtFOSAA	60		150	11/02/20 12:18	11/05/20 17:07	1
M2-6:2 FTS	127		150	11/02/20 12:18	11/05/20 17:07	1
M2-8:2 FTS	150		150	11/02/20 12:18	11/05/20 17:07	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15900		47.7	.8	mg/Kg	✱	8/20 02:35	8/20 19:06	
Antimony	ND		4.8	.4	mg/Kg	✱	8/20 02:35	8/20 19:06	
Arsenic	6.4		3.6	.73	mg/Kg	✱	8/20 02:35	8/20 19:06	
Barium	106		47.7	4.6	mg/Kg	✱	8/20 02:35	8/20 19:06	
Beryllium	0.68		.48	.076	mg/Kg	✱	8/20 02:35	8/20 19:06	
Cadmium	0.52	J	.95	.082	mg/Kg	✱	8/20 02:35	8/20 19:06	
Calcium	4010		90	88.2	mg/Kg	✱	8/20 02:35	8/20 19:06	
Chromium	18.9		.4	.7	mg/Kg	✱	8/20 02:35	8/20 19:06	
Cobalt	12.7		.9	.66	mg/Kg	✱	8/20 02:35	8/20 19:06	
Copper	24.4		.0	.5	mg/Kg	✱	8/20 02:35	8/20 19:06	
Iron	28700		35.8	4.6	mg/Kg	✱	8/20 02:35	8/20 19:06	
Lea	17.8		.4	.39	mg/Kg	✱	8/20 02:35	8/20 19:06	
Magnesium	5120		90	80.8	mg/Kg	✱	8/20 02:35	8/20 19:06	
Manganese	619		3.6	.27	mg/Kg	✱	8/20 02:35	8/20 19:06	
Nickel	23.9		9.5	.63	mg/Kg	✱	8/20 02:35	8/20 19:06	
Potassium	2280		90	73.3	mg/Kg	✱	8/20 02:35	8/20 19:06	
Selenium	ND		4.8	.81	mg/Kg	✱	8/20 02:35	8/20 19:06	
Silver	ND		.4	.3	mg/Kg	✱	8/20 02:35	8/20 19:06	
Sodium	ND		90	4	mg/Kg	✱	8/20 02:35	8/20 19:06	
Thallium	ND		4.8	.74	mg/Kg	✱	8/20 02:35	8/20 19:06	
V nadium	28.1		.9	.1	mg/Kg	✱	8/20 02:35	8/20 19:06	
Zinc	79.2		7.2	.3	mg/Kg	✱	8/20 02:35	8/20 19:06	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	.020	.0048	mg/Kg	✱	8/20 03:49	8/20 08:32	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.6	.46	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		.6	.45	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.4		.0	.0	%			7/20 13:18	
Percent Solids	77.6		.0	.0	%			7/20 13:18	

Client Sample ID: S2-SOIL-102120

Lab Sample ID: 460-221262-8

Date Collected: 10/21/20 11:55

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 67.2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.59		.29	.040	ug/Kg	✱	12:18	5/20 17:17	
Perfluoropentanoic acid (PFPeA)	0.37		.29	.1	ug/Kg	✱	12:18	5/20 17:17	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample ID: S2-SOIL-102120

Lab Sample ID: 460-221262-8

Date Collected: 10/21/20 11:55

Matrix: Soli

Date Received: 10/23/20 10:00

Percent Solids: 67.2

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

Analyte	result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.32		.29	.061	ug/Kg	☆	12:18	5/20 17:17	
Perfluoroheptanoic acid (PFHpA)	0.30		.29	.042	ug/Kg	☆	12:18	5/20 17:17	
Perfluorooctanoic acid (PFOA)	0.95		.29	.12	ug/Kg	☆	12:18	5/20 17:17	
Perfluorononanoic acid (PFNA)	0.45		.29	.052	ug/Kg	☆	12:18	5/20 17:17	
Perfluorodecanoic acid (PFDA)	0.32		.29	.032	ug/Kg	☆	12:18	5/20 17:17	
Perfluoroundecanoic acid (PFUnA)	0.34		.29	.052	ug/Kg	☆	12:18	5/20 17:17	
Perfluorododecanoic acid (PFDoA)	0.14	J	.29	.097	ug/Kg	☆	12:18	5/20 17:17	
Perfluorotridecanoic acid (PFTriA)	0.11	J	.29	.074	ug/Kg	☆	12:18	5/20 17:17	
Perfluorotetradecanoic acid (PFTeA)	0.079	J	.29	.078	ug/Kg	☆	12:18	5/20 17:17	
Perfluorobutanesulfonic acid (PFBS)	0.25	J	.29	.036	ug/Kg	☆	12:18	5/20 17:17	
Perfluorohexanesulfonic acid (PFHxS)	0.049	J	.29	.045	ug/Kg	☆	12:18	5/20 17:17	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.29	.050	ug/Kg	☆	12:18	5/20 17:17	
Perfluorooctanesulfonic acid (PFOS)	1.4		.72	.29	ug/Kg	☆	12:18	5/20 17:17	
Perfluorodecanesulfonic acid (PFDS)	ND		.29	.056	ug/Kg	☆	12:18	5/20 17:17	
Perfluorooctanesulfonamide (FOSA)	ND		.29	.12	ug/Kg	☆	12:18	5/20 17:17	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.9	.56	ug/Kg	☆	12:18	5/20 17:17	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.9	.53	ug/Kg	☆	12:18	5/20 17:17	
8:2 FTS	ND		.9	.22	ug/Kg	☆	12:18	5/20 17:17	
	ND		.9	.36	ug/Kg	☆	12:18	5/20 17:17	

Isotope	Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA		4		150	11/02/20 12:18	11/05/20 17:17	1
13C5 PFPeA		60		150	11/02/20 12:18	11/05/20 17:17	1
13C2 PFHxA		80		150	11/02/20 12:18	11/05/20 17:17	1
13C4 PFHpA		82		150	11/02/20 12:18	11/05/20 17:17	1
13C4 PFOA		85		150	11/02/20 12:18	11/05/20 17:17	1
13C5 PFNA		84		150	11/02/20 12:18	11/05/20 17:17	1
13C2 PFDA		84		150	11/02/20 12:18	11/05/20 17:17	1
13C2 PFUnA		87		150	11/02/20 12:18	11/05/20 17:17	1
13C2 PFDoA		78		150	11/02/20 12:18	11/05/20 17:17	1
13C2 PFTeDA		66		150	11/02/20 12:18	11/05/20 17:17	1
13C3 PFBS		70		150	11/02/20 12:18	11/05/20 17:17	1
18O2 PFHxS		79		150	11/02/20 12:18	11/05/20 17:17	1
13C4 PFOS		78		150	11/02/20 12:18	11/05/20 17:17	1
13C8 FOSA		77		150	11/02/20 12:18	11/05/20 17:17	1
d3-NMeFOSAA		74		150	11/02/20 12:18	11/05/20 17:17	1
NEtFOSAA		81		150	11/02/20 12:18	11/05/20 17:17	1
M2-6:2 FTS		153	*5	150	11/02/20 12:18	11/05/20 17:17	1
M2-8:2 FTS		191	*5	150	11/02/20 12:18	11/05/20 17:17	1

Method: 6010D - Metals (ICP)

Analyte	result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18100		56.1	7.9	mg/Kg	☆	8/20 02:35	8/20 19:10	
Antimony	ND		5.6	.6	mg/Kg	☆			

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S2-SOIL-102120

Lab Sample ID: 460-221262-8

Date Collected: 10/21/20 11:55

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 67.2

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.6		4.2	.86	mg/Kg	✱	8/20 02:35	8/20 19:10	
Barium	146		56.1	5.4	mg/Kg	✱	8/20 02:35	8/20 19:10	
Beryllium	0.80		.56	.090	mg/Kg	✱	8/20 02:35	8/20 19:10	
Cadmium	0.86	J	.1	.097	mg/Kg	✱	8/20 02:35	8/20 19:10	
Calcium	8480		400	4	mg/Kg	✱	8/20 02:35	8/20 19:10	
Chromium	24.9		.8	.0	mg/Kg	✱	8/20 02:35	8/20 19:10	
Cobalt	14.4		4.0	.78	mg/Kg	✱	8/20 02:35	8/20 19:10	
Copper	37.8		7.0	.8	mg/Kg	✱	8/20 02:35	8/20 19:10	
Iron	34400		42.1	8.9	mg/Kg	✱	8/20 02:35	8/20 19:10	
Lea	43.2		.8	.45	mg/Kg	✱	8/20 02:35	8/20 19:10	
Magnesium	6740		400	95.0	mg/Kg	✱	8/20 02:35	8/20 19:10	
Manganese	642		4.2	.32	mg/Kg	✱	8/20 02:35	8/20 19:10	
Nickel	32.4		.2	.74	mg/Kg	✱	8/20 02:35	8/20 19:10	
Potassium	3280		400	86.2	mg/Kg	✱	8/20 02:35	8/20 19:10	
Selenium	ND		5.6	.95	mg/Kg	✱	8/20 02:35	8/20 19:10	
Silver	ND		.8	.6	mg/Kg	✱	8/20 02:35	8/20 19:10	
Sodium	144	J	400		mg/Kg	✱	8/20 02:35	8/20 19:10	
Thallium	ND		5.6	.87	mg/Kg	✱	8/20 02:35	8/20 19:10	
V nadium	36.2		4.0	.3	mg/Kg	✱	8/20 02:35	8/20 19:10	
Zinc	132		8.4	.5	mg/Kg	✱	8/20 02:35	8/20 19:10	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		.025	.0059	mg/Kg	✱	8/20 03:49	8/20 08:34	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		3.0	.52	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		3.0	.52	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.8		.0	.0	%			7/20 13:18	
Percent Solids	67.2		.0	.0	%			7/20 13:18	

Client Sample ID: DUP1-SOIL-102120

Lab Sample ID: 460-221262-9

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 68.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.55		.28	.039	ug/Kg	✱	30/20 04:16	15:04	
Perfluoropentanoic acid (PFPeA)	0.29		.28	.1	ug/Kg	✱	30/20 04:16	15:04	
Perfluorohexanoic acid (PFHxA)	0.27	J	.28	.059	ug/Kg	✱	30/20 04:16	15:04	
Perfluoroheptanoic acid (PFHpA)	0.29		.28	.041	ug/Kg	✱	30/20 04:16	15:04	
Perfluorooctanoic acid (PFOA)	1.1		.28	.12	ug/Kg	✱	30/20 04:16	15:04	
Perfluorononanoic acid (PFNA)	0.43		.28	.050	ug/Kg	✱	30/20 04:16	15:04	
Perfluorodecanoic acid (PFDA)	0.24	J	.28	.031	ug/Kg	✱	30/20 04:16	15:04	
Perfluoroundecanoic acid (PFUnA)	0.25	J F1	.28	.050	ug/Kg	✱	30/20 04:16	15:04	
Perfluorododecanoic acid (PFDoA)	0.11	J	.28	.094	ug/Kg	✱	30/20 04:16	15:04	
Perfluorotridecanoic acid (PFTriA)	0.087	J	.28	.071	ug/Kg	✱	30/20 04:16	15:04	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: DUP1-SOIL-102120

Lab Sample ID: 460-221262-9

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 68.6

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	ND		.28	.076	ug/Kg	✱	30/20 04:16	15:04	
Perfluorobutanesulfonic acid (PFBS)	0.26	J	.28	.035	ug/Kg	✱	30/20 04:16	15:04	
Perfluorohexanesulfonic acid (PFHxS)	0.052	J	.28	.043	ug/Kg	✱	30/20 04:16	15:04	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.28	.049	ug/Kg	✱	30/20 04:16	15:04	
Perfluorooctanesulfonic acid (PFOS)	1.5		.70	.28	ug/Kg	✱	30/20 04:16	15:04	
Perfluorodecanesulfonic acid (PFDS)	ND		.28	.055	ug/Kg	✱	30/20 04:16	15:04	
Perfluorooctanesulfonamide (FOSA)	ND		.28	.1	ug/Kg	✱	30/20 04:16	15:04	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.8	.55	ug/Kg	✱	30/20 04:16	15:04	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.8	.52	ug/Kg	✱	30/20 04:16	15:04	
:2 FTS	ND		.8	.21	ug/Kg	✱	30/20 04:16	15:04	
8:2 FTS	ND		.8	.35	ug/Kg	✱	30/20 04:16	15:04	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	77		150	10/30/20 04:16	11/02/20 15:04	1
13C5 PFPeA	68		150	10/30/20 04:16	11/02/20 15:04	1
13C2 PFHxA	80		150	10/30/20 04:16	11/02/20 15:04	1
13C4 PFHpA	81		150	10/30/20 04:16	11/02/20 15:04	1
13C4 PFOA	80		150	10/30/20 04:16	11/02/20 15:04	1
13C5 PFNA	78		150	10/30/20 04:16	11/02/20 15:04	1
13C2 PFDA	80		150	10/30/20 04:16	11/02/20 15:04	1
13C2 PFUnA	0		150	10/30/20 04:16	11/02/20 15:04	1
13C2 PFDoA	80		150	10/30/20 04:16	11/02/20 15:04	1
13C2 PFTeDA	65		150	10/30/20 04:16	11/02/20 15:04	1
13C3 PFBS	76		150	10/30/20 04:16	11/02/20 15:04	1
18O2 PFHxS	80		150	10/30/20 04:16	11/02/20 15:04	1
13C4 PFOS	74		150	10/30/20 04:16	11/02/20 15:04	1
13C8 FOSA	78		150	10/30/20 04:16	11/02/20 15:04	1
d3-NMeFOSAA	86		150	10/30/20 04:16	11/02/20 15:04	1
NEtFOSAA	0		150	10/30/20 04:16	11/02/20 15:04	1
M2-6:2 FTS	123		150	10/30/20 04:16	11/02/20 15:04	1
M2-8:2 FTS	111		150	10/30/20 04:16	11/02/20 15:04	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17400		55.5	7.9	mg/Kg	✱	8/20 02:35	8/20 19:14	
Antimony	1.7	J	5.6	.6	mg/Kg	✱	8/20 02:35	8/20 19:14	
Arsenic	10.1		4.2	.85	mg/Kg	✱	8/20 02:35	8/20 19:14	
Barium	141		55.5	5.4	mg/Kg	✱	8/20 02:35	8/20 19:14	
Beryllium	0.80		.56	.089	mg/Kg	✱	8/20 02:35	8/20 19:14	
Cadmium	0.84	J	.1	.096	mg/Kg	✱	8/20 02:35	8/20 19:14	
Calcium	6890		390	3	mg/Kg	✱	8/20 02:35	8/20 19:14	
Chromium	24.8		.8	.0	mg/Kg	✱	8/20 02:35	8/20 19:14	
Cobalt	14.3		3.9	.77	mg/Kg	✱	8/20 02:35	8/20 19:14	
Copper	37.8		.9	.7	mg/Kg	✱	8/20 02:35	8/20 19:14	
Iron	33300		41.6	8.6	mg/Kg	✱	8/20 02:35	8/20 19:14	
Lea	45.7		.8	.45	mg/Kg	✱	8/20 02:35	8/20 19:14	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: DUP1-SOIL-102120

Lab Sample ID: 460-221262-9

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 68.6

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	6320		390	93.9	mg/Kg	✱	8/20 02:35	8/20 19:14	
Manganese	647		4.2	.31	mg/Kg	✱	8/20 02:35	8/20 19:14	
Nickel	32.1		.1	.73	mg/Kg	✱	8/20 02:35	8/20 19:14	
Potassium	3270		390	85.2	mg/Kg	✱	8/20 02:35	8/20 19:14	
Selenium	ND		5.6	.94	mg/Kg	✱	8/20 02:35	8/20 19:14	
Silver	ND		.8	.6	mg/Kg	✱	8/20 02:35	8/20 19:14	
Sodium	139	J	390		mg/Kg	✱	8/20 02:35	8/20 19:14	
Thallium	ND		5.6	.86	mg/Kg	✱	8/20 02:35	8/20 19:14	
Vadium	35.9		3.9	.3	mg/Kg	✱	8/20 02:35	8/20 19:14	
Zinc	134		8.3	.5	mg/Kg	✱	8/20 02:35	8/20 19:14	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.078		.024	.0056	mg/Kg	✱	8/20 03:49	8/20 08:40	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.9	.51	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		.9	.50	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.4		.0	.0	%			7/20 13:18	
Percent Solids	68.6		.0	.0	%			7/20 13:18	

Client Sample ID: S3-SOIL-102120

Lab Sample ID: 460-221262-10

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 91.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.10	J	.20	.028	ug/Kg	✱	12:18	5/20 17:26	
Perfluoropentanoic acid (PFPeA)	0.079	J	.20	.077	ug/Kg	✱	12:18	5/20 17:26	
Perfluorohexanoic acid (PFHxA)	0.080	J	.20	.042	ug/Kg	✱	12:18	5/20 17:26	
Perfluoroheptanoic acid (PFHpA)	0.063	J	.20	.029	ug/Kg	✱	12:18	5/20 17:26	
Perfluorooctanoic acid (PFOA)	ND		.20	.086	ug/Kg	✱	12:18	5/20 17:26	
Perfluorononanoic acid (PFNA)	ND		.20	.036	ug/Kg	✱	12:18	5/20 17:26	
Perfluorodecanoic acid (PFDA)	ND		.20	.022	ug/Kg	✱	12:18	5/20 17:26	
Perfluoroundecanoic acid (PFUnA)	ND		.20	.036	ug/Kg	✱	12:18	5/20 17:26	
Perfluorododecanoic acid (PFDoA)	ND		.20	.067	ug/Kg	✱	12:18	5/20 17:26	
Perfluorotridecanoic acid (PFTriA)	ND		.20	.051	ug/Kg	✱	12:18	5/20 17:26	
Perfluorotetradecanoic acid (PFTeA)	ND		.20	.054	ug/Kg	✱	12:18	5/20 17:26	
Perfluorobutanesulfonic acid (PFBS)	ND		.20	.025	ug/Kg	✱	12:18	5/20 17:26	
Perfluorohexanesulfonic acid (PFHxS)	ND		.20	.031	ug/Kg	✱	12:18	5/20 17:26	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.20	.035	ug/Kg	✱	12:18	5/20 17:26	
Perfluorooctanesulfonic acid (PFOS)	ND		.50	.20	ug/Kg	✱	12:18	5/20 17:26	
Perfluorodecanesulfonic acid (PFDS)	ND		.20	.039	ug/Kg	✱	12:18	5/20 17:26	
Perfluorooctanesulfonamide (FOSA)	ND		.20	.082	ug/Kg	✱	12:18	5/20 17:26	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.0	.39	ug/Kg	✱	12:18	5/20 17:26	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.0	.37	ug/Kg	✱	12:18	5/20 17:26	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S3-SOIL-102120

Lab Sample ID: 460-221262-10

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 91.0

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
:2 FTS	ND		.0	.15	ug/Kg	✱	12:18	5/20 17:26	
8:2 FTS	ND		.0	.25	ug/Kg	✱	12:18	5/20 17:26	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	66		150				11/02/20 12:18	11/05/20 17:26	1
13C5 PFPeA	68		150				11/02/20 12:18	11/05/20 17:26	1
13C2 PFHxA	81		150				11/02/20 12:18	11/05/20 17:26	1
13C4 PFHpA	84		150				11/02/20 12:18	11/05/20 17:26	1
13C4 PFOA	87		150				11/02/20 12:18	11/05/20 17:26	1
13C5 PFNA	84		150				11/02/20 12:18	11/05/20 17:26	1
13C2 PFDA	88		150				11/02/20 12:18	11/05/20 17:26	1
13C2 PFUnA	84		150				11/02/20 12:18	11/05/20 17:26	1
13C2 PFDoA	87		150				11/02/20 12:18	11/05/20 17:26	1
13C2 PFTeDA			150				11/02/20 12:18	11/05/20 17:26	1
13C3 PFBS	64		150				11/02/20 12:18	11/05/20 17:26	1
18O2 PFHxS	69		150				11/02/20 12:18	11/05/20 17:26	1
13C4 PFOS	70		150				11/02/20 12:18	11/05/20 17:26	1
13C8 FOSA	82		150				11/02/20 12:18	11/05/20 17:26	1
d3-NMeFOSAA	84		150				11/02/20 12:18	11/05/20 17:26	1
NEtFOSAA	69		150				11/02/20 12:18	11/05/20 17:26	1
M2-6:2 FTS	101		150				11/02/20 12:18	11/05/20 17:26	1
M2-8:2 FTS	128		150				11/02/20 12:18	11/05/20 17:26	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15400		42.3	.0	mg/Kg	✱	8/20 02:35	8/20 19:18	
Antimony	1.3	J	4.2	.2	mg/Kg	✱	8/20 02:35	8/20 19:18	
Arsenic	8.4		3.2	.65	mg/Kg	✱	8/20 02:35	8/20 19:18	
Barium	150		42.3	4.1	mg/Kg	✱	8/20 02:35	8/20 19:18	
Beryllium	0.71		.42	.068	mg/Kg	✱	8/20 02:35	8/20 19:18	
Cadmium	0.66	J	.85	.073	mg/Kg	✱	8/20 02:35	8/20 19:18	
Calcium	6760			78.1	mg/Kg	✱	8/20 02:35	8/20 19:18	
Chromium	23.1		.1	.5	mg/Kg	✱	8/20 02:35	8/20 19:18	
Cobalt	15.9		.6	.59	mg/Kg	✱	8/20 02:35	8/20 19:18	
Copper	44.3		5.3	.3	mg/Kg	✱	8/20 02:35	8/20 19:18	
Iron	34200		31.7	.8	mg/Kg	✱	8/20 02:35	8/20 19:18	
Lea	25.1		.1	.34	mg/Kg	✱	8/20 02:35	8/20 19:18	
Magnesium	8480			71.5	mg/Kg	✱	8/20 02:35	8/20 19:18	
Manganese	923		3.2	.24	mg/Kg	✱	8/20 02:35	8/20 19:18	
Nickel	33.8		8.5	.56	mg/Kg	✱	8/20 02:35	8/20 19:18	
Potassium	1660			4.9	mg/Kg	✱	8/20 02:35	8/20 19:18	
Selenium	ND		4.2	.72	mg/Kg	✱	8/20 02:35	8/20 19:18	
Silver	ND		.1	.2	mg/Kg	✱	8/20 02:35	8/20 19:18	
Sodium	ND			91.9	mg/Kg	✱	8/20 02:35	8/20 19:18	
Thallium	ND		4.2	.66	mg/Kg	✱	8/20 02:35	8/20 19:18	
V nadium	25.9		.6	.98	mg/Kg	✱	8/20 02:35	8/20 19:18	
Zinc	85.3		.3	.2	mg/Kg	✱	8/20 02:35	8/20 19:18	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		.017	.0041	mg/Kg	✱	8/20 03:49	8/20 08:42	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S3-SOIL-102120

Lab Sample ID: 460-221262-10

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 91.0

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.2	.39	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		.2	.38	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		.0	.0	%			7/20 13:18	
Percent Solids	91.0		.0	.0	%			7/20 13:18	

Client Sample ID: S4-SOIL-102120

Lab Sample ID: 460-221262-11

Date Collected: 10/21/20 17:49

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 76.4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.50		.24	.034	ug/Kg	✱	12:18	5/20 17:35	
Perfluoropentanoic acid (PFPeA)	0.20	J	.24	.094	ug/Kg	✱	12:18	5/20 17:35	
Perfluorohexanoic acid (PFHxA)	0.20	J	.24	.051	ug/Kg	✱	12:18	5/20 17:35	
Perfluoroheptanoic acid (PFHpA)	0.17	J	.24	.035	ug/Kg	✱	12:18	5/20 17:35	
Perfluorooctanoic acid (PFOA)	0.38		.24	.10	ug/Kg	✱	12:18	5/20 17:35	
Perfluorononanoic acid (PFNA)	0.17	J	.24	.044	ug/Kg	✱	12:18	5/20 17:35	
Perfluorodecanoic acid (PFDA)	0.089	J	.24	.027	ug/Kg	✱	12:18	5/20 17:35	
Perfluoroundecanoic acid (PFUnA)	0.078	J	.24	.044	ug/Kg	✱	12:18	5/20 17:35	
Perfluorododecanoic acid (PFDoA)	ND		.24	.081	ug/Kg	✱	12:18	5/20 17:35	
Perfluorotridecanoic acid (PFTriA)	ND		.24	.062	ug/Kg	✱	12:18	5/20 17:35	
Perfluorotetradecanoic acid (PFTeA)	ND		.24	.066	ug/Kg	✱	12:18	5/20 17:35	
Perfluorobutanesulfonic acid (PFBS)	0.050	J	.24	.030	ug/Kg	✱	12:18	5/20 17:35	
Perfluorohexanesulfonic acid (PFHxS)	ND		.24	.038	ug/Kg	✱	12:18	5/20 17:35	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.24	.043	ug/Kg	✱	12:18	5/20 17:35	
Perfluorooctanesulfonic acid (PFOS)	0.26	J	.61	.24	ug/Kg	✱	12:18	5/20 17:35	
Perfluorodecanesulfonic acid (PFDS)	ND		.24	.047	ug/Kg	✱	12:18	5/20 17:35	
Perfluorooctanesulfonamide (FOSA)	ND		.24	.10	ug/Kg	✱	12:18	5/20 17:35	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.4	.47	ug/Kg	✱	12:18	5/20 17:35	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.4	.45	ug/Kg	✱	12:18	5/20 17:35	
:2 FTS	ND		.4	.18	ug/Kg	✱	12:18	5/20 17:35	
8:2 FTS	ND		.4	.30	ug/Kg	✱	12:18	5/20 17:35	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA			150				11/02/20 12:18	11/05/20 17:35	1
13C5 PFPeA	60		150				11/02/20 12:18	11/05/20 17:35	1
13C2 PFHxA	73		150				11/02/20 12:18	11/05/20 17:35	1
13C4 PFHpA	76		150				11/02/20 12:18	11/05/20 17:35	1
13C4 PFOA	74		150				11/02/20 12:18	11/05/20 17:35	1
13C5 PFNA	76		150				11/02/20 12:18	11/05/20 17:35	1
13C2 PFDA	78		150				11/02/20 12:18	11/05/20 17:35	1
13C2 PFUnA	76		150				11/02/20 12:18	11/05/20 17:35	1
13C2 PFDoA	79		150				11/02/20 12:18	11/05/20 17:35	1
13C2 PFTeDA	82		150				11/02/20 12:18	11/05/20 17:35	1
13C3 PFBS	61		150				11/02/20 12:18	11/05/20 17:35	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S4-SOIL-102120

Lab Sample ID: 460-221262-11

Date Collected: 10/21/20 17:49

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 76.4

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	64		150	11/02/20 12:18	11/05/20 17:35	1
13C4 PFOS	66		150	11/02/20 12:18	11/05/20 17:35	1
13C8 FOSA	75		150	11/02/20 12:18	11/05/20 17:35	1
d3-NMeFOSAA	70		150	11/02/20 12:18	11/05/20 17:35	1
NEtFOSAA	71		150	11/02/20 12:18	11/05/20 17:35	1
M2-6:2 FTS	102		150	11/02/20 12:18	11/05/20 17:35	1
M2-8:2 FTS	130		150	11/02/20 12:18	11/05/20 17:35	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20400		50.8	7.2	mg/Kg	✱	8/20 02:35	8/20 19:30	
Antimony	ND		5.1	.5	mg/Kg	✱	8/20 02:35	8/20 19:30	
Arsenic	6.9		3.8	.78	mg/Kg	✱	8/20 02:35	8/20 19:30	
Barium	125		50.8	4.9	mg/Kg	✱	8/20 02:35	8/20 19:30	
Beryllium	0.87		.51	.081	mg/Kg	✱	8/20 02:35	8/20 19:30	
Cadmium	0.66	J	.0	.088	mg/Kg	✱	8/20 02:35	8/20 19:30	
Calcium	3510		70	93.9	mg/Kg	✱	8/20 02:35	8/20 19:30	
Chromium	22.4		.5	.8	mg/Kg	✱	8/20 02:35	8/20 19:30	
Cobalt	15.5		.7	.70	mg/Kg	✱	8/20 02:35	8/20 19:30	
Copper	24.8		.4	.6	mg/Kg	✱	8/20 02:35	8/20 19:30	
Iron	34400		38.1	.2	mg/Kg	✱	8/20 02:35	8/20 19:30	
Lea	15.1		.5	.41	mg/Kg	✱	8/20 02:35	8/20 19:30	
Magnesium	5870		70	86.0	mg/Kg	✱	8/20 02:35	8/20 19:30	
Manganese	596		3.8	.29	mg/Kg	✱	8/20 02:35	8/20 19:30	
Nickel	28.1		.2	.67	mg/Kg	✱	8/20 02:35	8/20 19:30	
Potassium	2900		70	78.0	mg/Kg	✱	8/20 02:35	8/20 19:30	
Selenium	ND		5.1	.86	mg/Kg	✱	8/20 02:35	8/20 19:30	
Silver	ND		.5	.4	mg/Kg	✱	8/20 02:35	8/20 19:30	
Sodium	125	J	70		mg/Kg	✱	8/20 02:35	8/20 19:30	
Thallium	ND		5.1	.79	mg/Kg	✱	8/20 02:35	8/20 19:30	
V nadium	33.7		.7	.2	mg/Kg	✱	8/20 02:35	8/20 19:30	
Zinc	78.5		7.6	.4	mg/Kg	✱	8/20 02:35	8/20 19:30	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		.022	.0051	mg/Kg	✱	8/20 03:49	8/20 08:44	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.6	.46	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		.6	.46	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.6		.0	.0	%			7/20 13:18	
Percent Solids	76.4		.0	.0	%			7/20 13:18	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S11-SOIL-102120

Lab Sample ID: 460-221262-12

Date Collected: 10/21/20 17:37

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 72.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.27		.27	.038	ug/Kg	✱	8/20 06:59	23:50	
Perfluoropentanoic acid (PFPeA)	0.10	J	.27	.10	ug/Kg	✱	8/20 06:59	23:50	
Perfluorohexanoic acid (PFHxA)	0.13	J	.27	.056	ug/Kg	✱	8/20 06:59	23:50	
Perfluoroheptanoic acid (PFHpA)	0.18	J	.27	.039	ug/Kg	✱	8/20 06:59	23:50	
Perfluorooctanoic acid (PFOA)	0.58		.27	.12	ug/Kg	✱	8/20 06:59	23:50	
Perfluorononanoic acid (PFNA)	0.41		.27	.048	ug/Kg	✱	8/20 06:59	23:50	
Perfluorodecanoic acid (PFDA)	0.21	J	.27	.030	ug/Kg	✱	8/20 06:59	23:50	
Perfluoroundecanoic acid (PFUnA)	0.30	F1	.27	.048	ug/Kg	✱	8/20 06:59	23:50	
Perfluorododecanoic acid (PFDoA)	ND		.27	.090	ug/Kg	✱	8/20 06:59	23:50	
Perfluorotridecanoic acid (PFTriA)	ND		.27	.068	ug/Kg	✱	8/20 06:59	23:50	
Perfluorotetradecanoic acid (PFTeA)	ND		.27	.072	ug/Kg	✱	8/20 06:59	23:50	
Perfluorobutanesulfonic acid (PFBS)	ND		.27	.034	ug/Kg	✱	8/20 06:59	23:50	
Perfluorohexanesulfonic acid (PFHxS)	ND		.27	.042	ug/Kg	✱	8/20 06:59	23:50	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.27	.047	ug/Kg	✱	8/20 06:59	23:50	
Perfluorooctanesulfonic acid (PFOS)	0.78	B	.67	.27	ug/Kg	✱	8/20 06:59	23:50	
Perfluorodecanesulfonic acid (PFDS)	ND		.27	.052	ug/Kg	✱	8/20 06:59	23:50	
Perfluorooctanesulfonamide (FOSA)	ND		.27	.1	ug/Kg	✱	8/20 06:59	23:50	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	.52	ug/Kg	✱	8/20 06:59	23:50	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	.50	ug/Kg	✱	8/20 06:59	23:50	
:2 FTS	ND		.7	.20	ug/Kg	✱	8/20 06:59	23:50	
8:2 FTS	ND		.7	.34	ug/Kg	✱	8/20 06:59	23:50	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	8		150	10/28/20 06:59	11/01/20 23:50	1
13C5 PFPeA	0		150	10/28/20 06:59	11/01/20 23:50	1
13C2 PFHxA	60		150	10/28/20 06:59	11/01/20 23:50	1
13C4 PFHpA			150	10/28/20 06:59	11/01/20 23:50	1
13C4 PFOA			150	10/28/20 06:59	11/01/20 23:50	1
13C5 PFNA			150	10/28/20 06:59	11/01/20 23:50	1
13C2 PFDA	8		150	10/28/20 06:59	11/01/20 23:50	1
13C2 PFUnA	6		150	10/28/20 06:59	11/01/20 23:50	1
13C2 PFDoA	60		150	10/28/20 06:59	11/01/20 23:50	1
13C2 PFTeDA	46		150	10/28/20 06:59	11/01/20 23:50	1
13C3 PFBS	8		150	10/28/20 06:59	11/01/20 23:50	1
18O2 PFHxS			150	10/28/20 06:59	11/01/20 23:50	1
13C4 PFOS	0		150	10/28/20 06:59	11/01/20 23:50	1
13C8 FOSA	45		150	10/28/20 06:59	11/01/20 23:50	1
d3-NMeFOSAA	68		150	10/28/20 06:59	11/01/20 23:50	1
NEtFOSAA	67		150	10/28/20 06:59	11/01/20 23:50	1
M2-6:2 FTS	67		150	10/28/20 06:59	11/01/20 23:50	1
M2-8:2 FTS	63		150	10/28/20 06:59	11/01/20 23:50	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17400		51.1	7.2	mg/Kg	✱	8/20 02:35	8/20 19:34	
Antimony	ND		5.1	.5	mg/Kg	✱	8/20 02:35	8/20 19:34	
Arsenic	6.2		3.8	.79	mg/Kg	✱	8/20 02:35	8/20 19:34	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S11-SOIL-102120

Lab Sample ID: 460-221262-12

Date Collected: 10/21/20 17:37

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 72.5

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	110		51.1	4.9	mg/Kg	✱	8/20 02:35	8/20 19:34	
Beryllium	0.71		.51	.082	mg/Kg	✱	8/20 02:35	8/20 19:34	
Cadmium	0.63	J	.0	.088	mg/Kg	✱	8/20 02:35	8/20 19:34	
Calcium	12500		80	94.4	mg/Kg	✱	8/20 02:35	8/20 19:34	
Chromium	21.5		.6	.8	mg/Kg	✱	8/20 02:35	8/20 19:34	
Cobalt	14.1		.8	.71	mg/Kg	✱	8/20 02:35	8/20 19:34	
Copper	22.9		.4	.6	mg/Kg	✱	8/20 02:35	8/20 19:34	
Iron	32400		38.3	.3	mg/Kg	✱	8/20 02:35	8/20 19:34	
Lea	14.1		.6	.41	mg/Kg	✱	8/20 02:35	8/20 19:34	
Magnesium	9160		80	86.4	mg/Kg	✱	8/20 02:35	8/20 19:34	
Manganese	683		3.8	.29	mg/Kg	✱	8/20 02:35	8/20 19:34	
Nickel	28.7		.2	.67	mg/Kg	✱	8/20 02:35	8/20 19:34	
Potassium	3210		80	78.4	mg/Kg	✱	8/20 02:35	8/20 19:34	
Selenium	ND		5.1	.87	mg/Kg	✱	8/20 02:35	8/20 19:34	
Silver	ND		.6	.4	mg/Kg	✱	8/20 02:35	8/20 19:34	
Sodium	211	J	80		mg/Kg	✱	8/20 02:35	8/20 19:34	
Thallium	ND		5.1	.79	mg/Kg	✱	8/20 02:35	8/20 19:34	
V nadium	30.3		.8	.2	mg/Kg	✱	8/20 02:35	8/20 19:34	
Zinc	76.8		7.7	.4	mg/Kg	✱	8/20 02:35	8/20 19:34	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	.023	.0054	mg/Kg	✱	8/20 03:49	8/20 08:46	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.8	.48	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		.7	.48	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.5		.0	.0	%			7/20 13:18	
Percent Solids	72.5		.0	.0	%			7/20 13:18	

Client Sample ID: S12-SOIL-102120

Lab Sample ID: 460-221262-13

Date Collected: 10/21/20 14:55

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 81.3

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.089	J	.24	.034	ug/Kg	✱	8/20 06:59	00:18	
Perfluoropentanoic acid (PFPeA)	ND		.24	.094	ug/Kg	✱	8/20 06:59	00:18	
Perfluorohexanoic acid (PFHxA)	0.061	J I	.24	.051	ug/Kg	✱	8/20 06:59	00:18	
Perfluoroheptanoic acid (PFHpA)	0.065	J	.24	.035	ug/Kg	✱	8/20 06:59	00:18	
Perfluorooctanoic acid (PFOA)	0.29		.24	.10	ug/Kg	✱	8/20 06:59	00:18	
Perfluorononanoic acid (PFNA)	0.17	J	.24	.044	ug/Kg	✱	8/20 06:59	00:18	
Perfluorodecanoic acid (PFDA)	0.073	J	.24	.027	ug/Kg	✱	8/20 06:59	00:18	
Perfluoroundecanoic acid (PFUnA)	0.13	J	.24	.044	ug/Kg	✱	8/20 06:59	00:18	
Perfluorododecanoic acid (PFDoA)	ND		.24	.082	ug/Kg	✱	8/20 06:59	00:18	
Perfluorotridecanoic acid (PFTriA)	ND		.24	.062	ug/Kg	✱	8/20 06:59	00:18	
Perfluorotetradecanoic acid (PFTeA)	ND		.24	.066	ug/Kg	✱	8/20 06:59	00:18	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S12-SOIL-102120

Lab Sample ID: 460-221262-13

Date Collected: 10/21/20 14:55

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 81.3

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		.24	.030	ug/Kg	✱	8/20 06:59	00:18	
Perfluorohexanesulfonic acid (PFHxS)	ND		.24	.038	ug/Kg	✱	8/20 06:59	00:18	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.24	.043	ug/Kg	✱	8/20 06:59	00:18	
Perfluorooctanesulfonic acid (PFOS)	0.45	J B	.61	.24	ug/Kg	✱	8/20 06:59	00:18	
Perfluorodecanesulfonic acid (PFDS)	ND		.24	.047	ug/Kg	✱	8/20 06:59	00:18	
Perfluorooctanesulfonamide (FOSA)	ND		.24	.10	ug/Kg	✱	8/20 06:59	00:18	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.4	.47	ug/Kg	✱	8/20 06:59	00:18	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.4	.45	ug/Kg	✱	8/20 06:59	00:18	
:2 FTS	ND		.4	.18	ug/Kg	✱	8/20 06:59	00:18	
8:2 FTS	ND		.4	.30	ug/Kg	✱	8/20 06:59	00:18	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	61		150	10/28/20 06:59	11/02/20 00:18	1
13C5 PFPeA			150	10/28/20 06:59	11/02/20 00:18	1
13C2 PFHxA	63		150	10/28/20 06:59	11/02/20 00:18	1
13C4 PFHpA	63		150	10/28/20 06:59	11/02/20 00:18	1
13C4 PFOA	63		150	10/28/20 06:59	11/02/20 00:18	1
13C5 PFNA	60		150	10/28/20 06:59	11/02/20 00:18	1
13C2 PFDA	62		150	10/28/20 06:59	11/02/20 00:18	1
13C2 PFUnA	8		150	10/28/20 06:59	11/02/20 00:18	1
13C2 PFDoA	4		150	10/28/20 06:59	11/02/20 00:18	1
13C2 PFTeDA	46		150	10/28/20 06:59	11/02/20 00:18	1
13C3 PFBS	61		150	10/28/20 06:59	11/02/20 00:18	1
18O2 PFHxS	61		150	10/28/20 06:59	11/02/20 00:18	1
13C4 PFOS	6		150	10/28/20 06:59	11/02/20 00:18	1
13C8 FOSA	49		150	10/28/20 06:59	11/02/20 00:18	1
d3-NMeFOSAA	66		150	10/28/20 06:59	11/02/20 00:18	1
NEtFOSAA	61		150	10/28/20 06:59	11/02/20 00:18	1
M2-6:2 FTS	73		150	10/28/20 06:59	11/02/20 00:18	1
M2-8:2 FTS	71		150	10/28/20 06:59	11/02/20 00:18	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11500		37.0	5.2	mg/Kg	✱	9/20 15:00	30/20 12:34	
Antimony	ND		3.7	.1	mg/Kg	✱	9/20 15:00	30/20 12:34	
Arsenic	6.2		.8	.57	mg/Kg	✱	9/20 15:00	30/20 12:34	
Barium	63.9		37.0	3.6	mg/Kg	✱	9/20 15:00	30/20 12:34	
Beryllium	0.58		.37	.059	mg/Kg	✱	9/20 15:00	30/20 12:34	
Cadmium	ND		.74	.064	mg/Kg	✱	9/20 15:00	30/20 12:34	
Calcium	2280		925	8.3	mg/Kg	✱	9/20 15:00	30/20 12:34	
Chromium	14.0		.8	.3	mg/Kg	✱	9/20 15:00	30/20 12:34	
Cobalt	8.1	J	9.2	.51	mg/Kg	✱	9/20 15:00	30/20 12:34	
Copper	15.7		4.6	.2	mg/Kg	✱	9/20 15:00	30/20 12:34	
Iron	23300		7.7	9.1	mg/Kg	✱	9/20 15:00	30/20 12:34	
Lea	12.4		.8	.30	mg/Kg	✱	9/20 15:00	30/20 12:34	
Magnesium	3100		925	.6	mg/Kg	✱	9/20 15:00	30/20 12:34	
Manganese	500		.8	.21	mg/Kg	✱	9/20 15:00	30/20 12:34	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S12-SOIL-102120

Lab Sample ID: 460-221262-13

Date Collected: 10/21/20 14:55

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 81.3

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	15.4		7.4	.49	mg/Kg	✱	9/20 15:00	30/20 12:34	
Potassium	1040		925	56.8	mg/Kg	✱	9/20 15:00	30/20 12:34	
Selenium	ND		3.7	.63	mg/Kg	✱	9/20 15:00	30/20 12:34	
Silver	ND		.8	.0	mg/Kg	✱	9/20 15:00	30/20 12:34	
Sodium	ND		925	80.5	mg/Kg	✱	9/20 15:00	30/20 12:34	
Thallium	0.86	J	3.7	.57	mg/Kg	✱	9/20 15:00	30/20 12:34	
V nadium	22.5		9.2	.86	mg/Kg	✱	9/20 15:00	30/20 12:34	
Zinc	47.5		5.5	.0	mg/Kg	✱	9/20 15:00	30/20 12:34	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		.020	.0046	mg/Kg	✱	8/20 02:58	8/20 07:05	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.5	.43	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		.5	.43	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.7		.0	.0	%			7/20 13:18	
Percent Solids	81.3		.0	.0	%			7/20 13:18	

Client Sample ID: DUP2-SOIL-102120

Lab Sample ID: 460-221262-14

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.38		.25	.035	ug/Kg	✱	8/20 06:59	00:28	
Perfluoropentanoic acid (PFPeA)	0.16	J	.25	.096	ug/Kg	✱	8/20 06:59	00:28	
Perfluorohexanoic acid (PFHxA)	0.15	J	.25	.052	ug/Kg	✱	8/20 06:59	00:28	
Perfluoroheptanoic acid (PFHpA)	0.16	J	.25	.036	ug/Kg	✱	8/20 06:59	00:28	
Perfluorooctanoic acid (PFOA)	0.36		.25	.1	ug/Kg	✱	8/20 06:59	00:28	
Perfluorononanoic acid (PFNA)	0.17	J	.25	.045	ug/Kg	✱	8/20 06:59	00:28	
Perfluorodecanoic acid (PFDA)	0.066	J	.25	.027	ug/Kg	✱	8/20 06:59	00:28	
Perfluoroundecanoic acid (PFUnA)	0.099	J	.25	.045	ug/Kg	✱	8/20 06:59	00:28	
Perfluorododecanoic acid (PFDoA)	ND		.25	.084	ug/Kg	✱	8/20 06:59	00:28	
Perfluorotridecanoic acid (PFTriA)	ND		.25	.064	ug/Kg	✱	8/20 06:59	00:28	
Perfluorotetradecanoic acid (PFTeA)	ND		.25	.067	ug/Kg	✱	8/20 06:59	00:28	
Perfluorobutanesulfonic acid (PFBS)	0.033	J	.25	.031	ug/Kg	✱	8/20 06:59	00:28	
Perfluorohexanesulfonic acid (PFHxS)	ND		.25	.039	ug/Kg	✱	8/20 06:59	00:28	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.25	.044	ug/Kg	✱	8/20 06:59	00:28	
Perfluorooctanesulfonic acid (PFOS)	0.32	J B	.62	.25	ug/Kg	✱	8/20 06:59	00:28	
Perfluorodecanesulfonic acid (PFDS)	ND		.25	.049	ug/Kg	✱	8/20 06:59	00:28	
Perfluorooctanesulfonamide (FOSA)	ND		.25	.10	ug/Kg	✱	8/20 06:59	00:28	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.5	.49	ug/Kg	✱	8/20 06:59	00:28	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.5	.46	ug/Kg	✱	8/20 06:59	00:28	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: DUP2-SOIL-102120

Lab Sample ID: 460-221262-14

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.6

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
:2 FTS	ND		.5	.19	ug/Kg	✱	8/20 06:59	00:28	
8:2 FTS	ND		.5	.31	ug/Kg	✱	8/20 06:59	00:28	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	63		150				10/28/20 06:59	11/02/20 00:28	1
13C5 PFPeA			150				10/28/20 06:59	11/02/20 00:28	1
13C2 PFHxA	67		150				10/28/20 06:59	11/02/20 00:28	1
13C4 PFHpA	67		150				10/28/20 06:59	11/02/20 00:28	1
13C4 PFOA	64		150				10/28/20 06:59	11/02/20 00:28	1
13C5 PFNA	65		150				10/28/20 06:59	11/02/20 00:28	1
13C2 PFDA	65		150				10/28/20 06:59	11/02/20 00:28	1
13C2 PFUnA	66		150				10/28/20 06:59	11/02/20 00:28	1
13C2 PFDoA	65		150				10/28/20 06:59	11/02/20 00:28	1
13C2 PFTeDA	49		150				10/28/20 06:59	11/02/20 00:28	1
13C3 PFBS	7		150				10/28/20 06:59	11/02/20 00:28	1
18O2 PFHxS	8		150				10/28/20 06:59	11/02/20 00:28	1
13C4 PFOS	3		150				10/28/20 06:59	11/02/20 00:28	1
13C8 FOSA	4		150				10/28/20 06:59	11/02/20 00:28	1
d3-NMeFOSAA	74		150				10/28/20 06:59	11/02/20 00:28	1
NEtFOSAA	68		150				10/28/20 06:59	11/02/20 00:28	1
M2-6:2 FTS	70		150				10/28/20 06:59	11/02/20 00:28	1
M2-8:2 FTS	68		150				10/28/20 06:59	11/02/20 00:28	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19200		39.3	5.6	mg/Kg	✱	9/20 15:00	30/20 12:38	
Antimony	ND		3.9	.1	mg/Kg	✱	9/20 15:00	30/20 12:38	
Arsenic	7.7		3.0	.60	mg/Kg	✱	9/20 15:00	30/20 12:38	
Barium	114		39.3	3.8	mg/Kg	✱	9/20 15:00	30/20 12:38	
Beryllium	0.93		.39	.063	mg/Kg	✱	9/20 15:00	30/20 12:38	
Cadmium	ND		.79	.068	mg/Kg	✱	9/20 15:00	30/20 12:38	
Calcium	3160		984	72.7	mg/Kg	✱	9/20 15:00	30/20 12:38	
Chromium	21.0		.0	.4	mg/Kg	✱	9/20 15:00	30/20 12:38	
Cobalt	14.6		9.8	.54	mg/Kg	✱	9/20 15:00	30/20 12:38	
Copper	23.3		4.9	.2	mg/Kg	✱	9/20 15:00	30/20 12:38	
Iron	32300		9.5	.3	mg/Kg	✱	9/20 15:00	30/20 12:38	
Lea	12.8		.0	.32	mg/Kg	✱	9/20 15:00	30/20 12:38	
Magnesium	5380		984	.6	mg/Kg	✱	9/20 15:00	30/20 12:38	
Manganese	500		3.0	.22	mg/Kg	✱	9/20 15:00	30/20 12:38	
Nickel	26.3		7.9	.52	mg/Kg	✱	9/20 15:00	30/20 12:38	
Potassium	2460		984	.4	mg/Kg	✱	9/20 15:00	30/20 12:38	
Selenium	1.1 J		3.9	.67	mg/Kg	✱	9/20 15:00	30/20 12:38	
Silver	ND		.0	.1	mg/Kg	✱	9/20 15:00	30/20 12:38	
Sodium	90.6 J		984	85.6	mg/Kg	✱	9/20 15:00	30/20 12:38	
Thallium	0.91 J		3.9	.61	mg/Kg	✱	9/20 15:00	30/20 12:38	
V nadium	30.9		9.8	.91	mg/Kg	✱	9/20 15:00	30/20 12:38	
Zinc	72.1		5.9	.1	mg/Kg	✱	9/20 15:00	30/20 12:38	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		.020	.0046	mg/Kg	✱	8/20 02:58	8/20 07:07	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: DUP2-SOIL-102120

Lab Sample ID: 460-221262-14

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.6

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.6	.45	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		.6	.45	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.4		.0	.0	%			7/20 13:18	
Percent Solids	77.6		.0	.0	%			7/20 13:18	

Client Sample ID: S1-SOIL-102120

Lab Sample ID: 460-221262-15

Date Collected: 10/21/20 16:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 73.2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.19	J	.27	.037	ug/Kg	✱	8/20 06:59	00:37	
Perfluoropentanoic acid (PFPeA)	ND		.27	.10	ug/Kg	✱	8/20 06:59	00:37	
Perfluorohexanoic acid (PFHxA)	0.084	J	.27	.056	ug/Kg	✱	8/20 06:59	00:37	
Perfluoroheptanoic acid (PFHpA)	0.10	J	.27	.039	ug/Kg	✱	8/20 06:59	00:37	
Perfluorooctanoic acid (PFOA)	0.30		.27	.1	ug/Kg	✱	8/20 06:59	00:37	
Perfluorononanoic acid (PFNA)	0.19	J	.27	.048	ug/Kg	✱	8/20 06:59	00:37	
Perfluorodecanoic acid (PFDA)	0.092	J	.27	.029	ug/Kg	✱	8/20 06:59	00:37	
Perfluoroundecanoic acid (PFUnA)	0.16	J I	.27	.048	ug/Kg	✱	8/20 06:59	00:37	
Perfluorododecanoic acid (PFDoA)	ND		.27	.089	ug/Kg	✱	8/20 06:59	00:37	
Perfluorotridecanoic acid (PFTriA)	ND		.27	.068	ug/Kg	✱	8/20 06:59	00:37	
Perfluorotetradecanoic acid (PFTeA)	ND		.27	.072	ug/Kg	✱	8/20 06:59	00:37	
Perfluorobutanesulfonic acid (PFBS)	ND		.27	.033	ug/Kg	✱	8/20 06:59	00:37	
Perfluorohexanesulfonic acid (PFHxS)	ND		.27	.041	ug/Kg	✱	8/20 06:59	00:37	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.27	.047	ug/Kg	✱	8/20 06:59	00:37	
Perfluorooctanesulfonic acid (PFOS)	0.95	B	.66	.27	ug/Kg	✱	8/20 06:59	00:37	
Perfluorodecanesulfonic acid (PFDS)	ND		.27	.052	ug/Kg	✱	8/20 06:59	00:37	
Perfluorooctanesulfonamide (FOSA)	ND		.27	.1	ug/Kg	✱	8/20 06:59	00:37	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	.52	ug/Kg	✱	8/20 06:59	00:37	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	.49	ug/Kg	✱	8/20 06:59	00:37	
:2 FTS	ND		.7	.20	ug/Kg	✱	8/20 06:59	00:37	
8:2 FTS	ND		.7	.33	ug/Kg	✱	8/20 06:59	00:37	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	7		150				10/28/20 06:59	11/02/20 00:37	1
13C5 PFPeA	0		150				10/28/20 06:59	11/02/20 00:37	1
13C2 PFHxA	63		150				10/28/20 06:59	11/02/20 00:37	1
13C4 PFHpA	63		150				10/28/20 06:59	11/02/20 00:37	1
13C4 PFOA	64		150				10/28/20 06:59	11/02/20 00:37	1
13C5 PFNA	65		150				10/28/20 06:59	11/02/20 00:37	1
13C2 PFDA	67		150				10/28/20 06:59	11/02/20 00:37	1
13C2 PFUnA	60		150				10/28/20 06:59	11/02/20 00:37	1
13C2 PFDoA	60		150				10/28/20 06:59	11/02/20 00:37	1
13C2 PFTeDA			150				10/28/20 06:59	11/02/20 00:37	1
13C3 PFBS	63		150				10/28/20 06:59	11/02/20 00:37	1
18O2 PFHxS	66		150				10/28/20 06:59	11/02/20 00:37	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S1-SOIL-102120

Lab Sample ID: 460-221262-15

Date Collected: 10/21/20 16:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 73.2

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	65		150	10/28/20 06:59	11/02/20 00:37	1
13C8 FOSA	7		150	10/28/20 06:59	11/02/20 00:37	1
d3-NMeFOSAA	0		150	10/28/20 06:59	11/02/20 00:37	1
NEtFOSAA	44		150	10/28/20 06:59	11/02/20 00:37	1
M2-6:2 FTS	68		150	10/28/20 06:59	11/02/20 00:37	1
M2-8:2 FTS	73		150	10/28/20 06:59	11/02/20 00:37	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11900		43.4	.1	mg/Kg	✱	9/20 15:00	30/20 12:42	
Antimony	ND		4.3	.2	mg/Kg	✱	9/20 15:00	30/20 12:42	
Arsenic	4.9		3.3	.67	mg/Kg	✱	9/20 15:00	30/20 12:42	
Barium	46.9		43.4	4.2	mg/Kg	✱	9/20 15:00	30/20 12:42	
Beryllium	0.54		.43	.069	mg/Kg	✱	9/20 15:00	30/20 12:42	
Cadmium	ND		.87	.075	mg/Kg	✱	9/20 15:00	30/20 12:42	
Calcium	940 J		80	80.1	mg/Kg	✱	9/20 15:00	30/20 12:42	
Chromium	14.8		.2	.5	mg/Kg	✱	9/20 15:00	30/20 12:42	
Cobalt	6.6 J		.8	.60	mg/Kg	✱	9/20 15:00	30/20 12:42	
Copper	12.4		5.4	.4	mg/Kg	✱	9/20 15:00	30/20 12:42	
Iron	18700		32.5	.3	mg/Kg	✱	9/20 15:00	30/20 12:42	
Lea	19.4		.2	.35	mg/Kg	✱	9/20 15:00	30/20 12:42	
Magnesium	2230		80	73.4	mg/Kg	✱	9/20 15:00	30/20 12:42	
Manganese	288		3.3	.24	mg/Kg	✱	9/20 15:00	30/20 12:42	
Nickel	13.9		8.7	.57	mg/Kg	✱	9/20 15:00	30/20 12:42	
Potassium	640 J		80	.6	mg/Kg	✱	9/20 15:00	30/20 12:42	
Selenium	ND		4.3	.74	mg/Kg	✱	9/20 15:00	30/20 12:42	
Silver	ND		.2	.2	mg/Kg	✱	9/20 15:00	30/20 12:42	
Sodium	ND		80	94.3	mg/Kg	✱	9/20 15:00	30/20 12:42	
Thallium	ND		4.3	.67	mg/Kg	✱	9/20 15:00	30/20 12:42	
V nadium	23.8		.8	.0	mg/Kg	✱	9/20 15:00	30/20 12:42	
Zinc	45.4		.5	.2	mg/Kg	✱	9/20 15:00	30/20 12:42	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		.022	.0053	mg/Kg	✱	8/20 02:58	8/20 07:09	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.7	.48	mg/Kg	✱	9/20 09:04	30/20 12:09	
Chromium, hexavalent	ND		.7	.47	mg/Kg	✱	12:08	13:46	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.8		.0	.0	%			7/20 13:18	
Percent Solids	73.2		.0	.0	%			7/20 13:18	

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: TB2-102120

Lab Sample ID: 460-221262-16

Date Collected: 10/21/20 00:00

Matrix: W ter

Date Received: 10/23/20 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5	.1	ng/L		7/20 18:39	9/20 00:00	
Perfluoropentanoic acid (PFPeA)	ND		.8	.44	ng/L		7/20 18:39	9/20 00:00	
Perfluorohexanoic acid (PFHxA)	ND		.8	.52	ng/L		7/20 18:39	9/20 00:00	
Perfluoroheptanoic acid (PFHpA)	ND		.8	.22	ng/L		7/20 18:39	9/20 00:00	
Perfluorooctanoic acid (PFOA)	ND		.8	.76	ng/L		7/20 18:39	9/20 00:00	
Perfluorononanoic acid (PFNA)	ND		.8	.24	ng/L		7/20 18:39	9/20 00:00	
Perfluorodecanoic acid (PFDA)	ND		.8	.28	ng/L		7/20 18:39	9/20 00:00	
Perfluoroundecanoic acid (PFUnA)	ND		.8	.98	ng/L		7/20 18:39	9/20 00:00	
Perfluorododecanoic acid (PFDoA)	ND		.8	.49	ng/L		7/20 18:39	9/20 00:00	
Perfluorotridecanoic acid (PFTriA)	ND		.8	.2	ng/L		7/20 18:39	9/20 00:00	
Perfluorotetradecanoic acid (PFTeA)	ND		.8	.65	ng/L		7/20 18:39	9/20 00:00	
Perfluorobutanesulfonic acid (PFBS)	ND		.8	.18	ng/L		7/20 18:39	9/20 00:00	
Perfluorohexanesulfonic acid (PFHxS)	ND		.8	.51	ng/L		7/20 18:39	9/20 00:00	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.8	.17	ng/L		7/20 18:39	9/20 00:00	
Perfluorooctanesulfonic acid (PFOS)	ND		.8	.48	ng/L		7/20 18:39	9/20 00:00	
Perfluorodecanesulfonic acid (PFDS)	ND		.8	.29	ng/L		7/20 18:39	9/20 00:00	
Perfluorooctanesulfonamide (FOSA)	ND		.8	.87	ng/L		7/20 18:39	9/20 00:00	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	.1	ng/L		7/20 18:39	9/20 00:00	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	.2	ng/L		7/20 18:39	9/20 00:00	
:2 FTS	ND		4.5	.2	ng/L		7/20 18:39	9/20 00:00	
8:2 FTS	ND		.8	.41	ng/L		7/20 18:39	9/20 00:00	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	68		150	10/27/20 18:39	10/29/20 00:00	1
13C5 PFPeA	71		150	10/27/20 18:39	10/29/20 00:00	1
13C2 PFHxA	75		150	10/27/20 18:39	10/29/20 00:00	1
13C4 PFHpA	76		150	10/27/20 18:39	10/29/20 00:00	1
13C4 PFOA	83		150	10/27/20 18:39	10/29/20 00:00	1
13C5 PFNA	81		150	10/27/20 18:39	10/29/20 00:00	1
13C2 PFDA	80		150	10/27/20 18:39	10/29/20 00:00	1
13C2 PFUnA	87		150	10/27/20 18:39	10/29/20 00:00	1
13C2 PFDoA	83		150	10/27/20 18:39	10/29/20 00:00	1
13C2 PFTeDA	70		150	10/27/20 18:39	10/29/20 00:00	1
13C3 PFBS	75		150	10/27/20 18:39	10/29/20 00:00	1
18O2 PFHxS	77		150	10/27/20 18:39	10/29/20 00:00	1
13C4 PFOS	78		150	10/27/20 18:39	10/29/20 00:00	1
13C8 FOSA	70		150	10/27/20 18:39	10/29/20 00:00	1
d3-NMeFOSAA	70		150	10/27/20 18:39	10/29/20 00:00	1
NEtFOSAA	81		150	10/27/20 18:39	10/29/20 00:00	1
M2-6:2 FTS	63		150	10/27/20 18:39	10/29/20 00:00	1
M2-8:2 FTS	66		150	10/27/20 18:39	10/29/20 00:00	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND			76.9	ug/L		4/20 20:00	17:01	
Antimony	ND		.0	3.7	ug/L		4/20 20:00	17:01	
Arsenic	ND		5.0	3.3	ug/L		4/20 20:00	17:01	
Barium	ND			3.2	ug/L		4/20 20:00	17:01	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: TB2-102120

Lab Sample ID: 460-221262-16

Date Collected: 10/21/20 00:00

Matrix: W ter

Date Received: 10/23/20 10:00

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		.0	.17	ug/L		4/20 20:00	17:01	
Cadmium	ND		4.0	.33	ug/L		4/20 20:00	17:01	
Calcium	ND		5000	52	ug/L		4/20 20:00	17:01	
Chromium	ND		.0	5.0	ug/L		4/20 20:00	17:01	
Cobalt	ND		50.0	.0	ug/L		4/20 20:00	17:01	
Copper	ND		5.0	.9	ug/L		4/20 20:00	17:01	
Iron	ND		50	80.8	ug/L		4/20 20:00	17:01	
Lead	ND		.0	.4	ug/L		4/20 20:00	17:01	
Magnesium	ND		5000	42	ug/L		4/20 20:00	17:01	
Manganese	ND		5.0	.76	ug/L		4/20 20:00	17:01	
Nickel	ND		40.0	4.1	ug/L		4/20 20:00	17:01	
Potassium	ND		5000	42	ug/L		4/20 20:00	17:01	
Selenium	ND		.0	5.9	ug/L		4/20 20:00	17:01	
Silver	ND		.0	5.8	ug/L		4/20 20:00	17:01	
Sodium	104	J	5000	83.8	ug/L		4/20 20:00	17:01	
Thallium	ND		.0	4.1	ug/L		4/20 20:00	17:01	
Vanadium	ND		50.0	7.2	ug/L		4/20 20:00	17:01	
Zinc	2.4	J	30.0	.2	ug/L		4/20 20:00	17:01	

Method: 7470A - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		.20	.091	ug/L		8/20 12:28	8/20 14:21	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND	H H3	.0	8.1	ug/L			3/20 16:30	

Client Sample ID: S6A-SOIL-102120

Lab Sample ID: 460-221262-17

Date Collected: 10/21/20 14:40

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 74.1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.22	J	.27	.037	ug/Kg	✱	8/20 06:59	00:47	
Perfluoropentanoic acid (PFPeA)	0.16	J	.27	.10	ug/Kg	✱	8/20 06:59	00:47	
Perfluorohexanoic acid (PFHxA)	ND		.27	.056	ug/Kg	✱	8/20 06:59	00:47	
Perfluoroheptanoic acid (PFHpA)	0.13	J	.27	.039	ug/Kg	✱	8/20 06:59	00:47	
Perfluorooctanoic acid (PFOA)	0.45		.27	.12	ug/Kg	✱	8/20 06:59	00:47	
Perfluorononanoic acid (PFNA)	0.32		.27	.048	ug/Kg	✱	8/20 06:59	00:47	
Perfluorodecanoic acid (PFDA)	0.40		.27	.029	ug/Kg	✱	8/20 06:59	00:47	
Perfluoroundecanoic acid (PFUnA)	0.21	J	.27	.048	ug/Kg	✱	8/20 06:59	00:47	
Perfluorododecanoic acid (PFDoA)	0.15	J	.27	.090	ug/Kg	✱	8/20 06:59	00:47	
Perfluorotridecanoic acid (PFTriA)	ND		.27	.068	ug/Kg	✱	8/20 06:59	00:47	
Perfluorotetradecanoic acid (PFTeA)	ND		.27	.072	ug/Kg	✱	8/20 06:59	00:47	
Perfluorobutanesulfonic acid (PFBS)	0.093	J	.27	.033	ug/Kg	✱	8/20 06:59	00:47	
Perfluorohexanesulfonic acid (PFHxS)	0.059	J I	.27	.041	ug/Kg	✱	8/20 06:59	00:47	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.27	.047	ug/Kg	✱	8/20 06:59	00:47	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S6A-SOIL-102120

Lab Sample ID: 460-221262-17

Date Collected: 10/21/20 14:40

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 74.1

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	2.8	B	.67	.27	ug/Kg	☼	8/20 06:59	00:47	
Perfluorodecanesulfonic acid (PFDS)	0.15	J	.27	.052	ug/Kg	☼	8/20 06:59	00:47	
Perfluorooctanesulfonamide (FOSA)	ND		.27	.1	ug/Kg	☼	8/20 06:59	00:47	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	.52	ug/Kg	☼	8/20 06:59	00:47	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	.50	ug/Kg	☼	8/20 06:59	00:47	
:2 FTS	ND		.7	.20	ug/Kg	☼	8/20 06:59	00:47	
8:2 FTS	ND		.7	.33	ug/Kg	☼	8/20 06:59	00:47	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	0		150				10/28/20 06:59	11/02/20 00:47	1
13C5 PFPeA	41		150				10/28/20 06:59	11/02/20 00:47	1
13C2 PFHxA	8		150				10/28/20 06:59	11/02/20 00:47	1
13C4 PFHpA	8		150				10/28/20 06:59	11/02/20 00:47	1
13C4 PFOA			150				10/28/20 06:59	11/02/20 00:47	1
13C5 PFNA	3		150				10/28/20 06:59	11/02/20 00:47	1
13C2 PFDA	7		150				10/28/20 06:59	11/02/20 00:47	1
13C2 PFUnA	1		150				10/28/20 06:59	11/02/20 00:47	1
13C2 PFDoA	46		150				10/28/20 06:59	11/02/20 00:47	1
13C2 PFTeDA	32		150				10/28/20 06:59	11/02/20 00:47	1
13C3 PFBS			150				10/28/20 06:59	11/02/20 00:47	1
18O2 PFHxS	61		150				10/28/20 06:59	11/02/20 00:47	1
13C4 PFOS	6		150				10/28/20 06:59	11/02/20 00:47	1
13C8 FOSA	45		150				10/28/20 06:59	11/02/20 00:47	1
d3-NMeFOSAA	4		150				10/28/20 06:59	11/02/20 00:47	1
NEtFOSAA	0		150				10/28/20 06:59	11/02/20 00:47	1
M2-6:2 FTS	71		150				10/28/20 06:59	11/02/20 00:47	1
M2-8:2 FTS	67		150				10/28/20 06:59	11/02/20 00:47	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		40.3	5.7	mg/Kg	☼	9/20 15:00	30/20 12:46	
Antimony	ND		4.0	.2	mg/Kg	☼	9/20 15:00	30/20 12:46	
Arsenic	8.5		3.0	.62	mg/Kg	☼	9/20 15:00	30/20 12:46	
Barium	105		40.3	3.9	mg/Kg	☼	9/20 15:00	30/20 12:46	
Beryllium	0.59		.40	.064	mg/Kg	☼	9/20 15:00	30/20 12:46	
Cadmium	0.091	J	.81	.069	mg/Kg	☼	9/20 15:00	30/20 12:46	
Calcium	2450			74.4	mg/Kg	☼	9/20 15:00	30/20 12:46	
Chromium	17.0		.0	.4	mg/Kg	☼	9/20 15:00	30/20 12:46	
Cobalt	10.8		.1	.56	mg/Kg	☼	9/20 15:00	30/20 12:46	
Copper	27.9		5.0	.3	mg/Kg	☼	9/20 15:00	30/20 12:46	
Iron	22000		30.2	.7	mg/Kg	☼	9/20 15:00	30/20 12:46	
Lea	38.5		.0	.33	mg/Kg	☼	9/20 15:00	30/20 12:46	
Magnesium	3740			8.1	mg/Kg	☼	9/20 15:00	30/20 12:46	
Manganese	722		3.0	.23	mg/Kg	☼	9/20 15:00	30/20 12:46	
Nickel	20.7		8.1	.53	mg/Kg	☼	9/20 15:00	30/20 12:46	
Potassium	1360			.8	mg/Kg	☼	9/20 15:00	30/20 12:46	
Selenium	ND		4.0	.68	mg/Kg	☼	9/20 15:00	30/20 12:46	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S6A-SOIL-102120

Lab Sample ID: 460-221262-17

Date Collected: 10/21/20 14:40

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 74.1

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		.0	.1	mg/Kg	✱	9/20 15:00	30/20 12:46	
Sodium	ND			87.6	mg/Kg	✱	9/20 15:00	30/20 12:46	
Thallium	1.1	J	4.0	.62	mg/Kg	✱	9/20 15:00	30/20 12:46	
V nadium	26.2		.1	.94	mg/Kg	✱	9/20 15:00	30/20 12:46	
Zinc	95.3		.0	.1	mg/Kg	✱	9/20 15:00	30/20 12:46	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		.022	.0052	mg/Kg	✱	8/20 02:58	8/20 07:1	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.7	.47	mg/Kg	✱	9/20 09:04	30/20 13:10	
Chromium, hexavalent	ND		.7	.47	mg/Kg	✱	12:08	14:22	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.9		.0	.0	%			7/20 13:18	
Percent Solids	74.1		.0	.0	%			7/20 13:18	

Client Sample ID: S6B-SOIL-102120

Lab Sample ID: 460-221262-18

Date Collected: 10/21/20 14:50

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.34		.26	.036	ug/Kg	✱	8/20 06:59	00:56	
Perfluoropentanoic acid (PFPeA)	0.23	J	.26	.098	ug/Kg	✱	8/20 06:59	00:56	
Perfluorohexanoic acid (PFHxA)	0.16	J	.26	.054	ug/Kg	✱	8/20 06:59	00:56	
Perfluoroheptanoic acid (PFHpA)	0.17	J	.26	.037	ug/Kg	✱	8/20 06:59	00:56	
Perfluorooctanoic acid (PFOA)	0.63		.26	.1	ug/Kg	✱	8/20 06:59	00:56	
Perfluorononanoic acid (PFNA)	0.31		.26	.046	ug/Kg	✱	8/20 06:59	00:56	
Perfluorodecanoic acid (PFDA)	0.34		.26	.028	ug/Kg	✱	8/20 06:59	00:56	
Perfluoroundecanoic acid (PFUnA)	0.17	J	.26	.046	ug/Kg	✱	8/20 06:59	00:56	
Perfluorododecanoic acid (PFDoA)	0.14	J	.26	.085	ug/Kg	✱	8/20 06:59	00:56	
Perfluorotridecanoic acid (PFTriA)	ND		.26	.065	ug/Kg	✱	8/20 06:59	00:56	
Perfluorotetradecanoic acid (PFTeA)	ND		.26	.069	ug/Kg	✱	8/20 06:59	00:56	
Perfluorobutanesulfonic acid (PFBS)	0.089	J	.26	.032	ug/Kg	✱	8/20 06:59	00:56	
Perfluorohexanesulfonic acid (PFHxS)	0.064	J I	.26	.040	ug/Kg	✱	8/20 06:59	00:56	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.26	.045	ug/Kg	✱	8/20 06:59	00:56	
Perfluorooctanesulfonic acid (PFOS)	2.3	B	.64	.26	ug/Kg	✱	8/20 06:59	00:56	
Perfluorodecanesulfonic acid (PFDS)	0.15	J	.26	.050	ug/Kg	✱	8/20 06:59	00:56	
Perfluorooctanesulfonamide (FOSA)	ND		.26	.10	ug/Kg	✱	8/20 06:59	00:56	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.6	.50	ug/Kg	✱	8/20 06:59	00:56	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.6	.47	ug/Kg	✱	8/20 06:59	00:56	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S6B-SOIL-102120

Lab Sample ID: 460-221262-18

Date Collected: 10/21/20 14:50

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
:2 FTS	ND		.6	.19	ug/Kg	✱	8/20 06:59	00:56	
8:2 FTS	ND		.6	.32	ug/Kg	✱	8/20 06:59	00:56	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	71		150				10/28/20 06:59	11/02/20 00:56	1
13C5 PFPeA			150				10/28/20 06:59	11/02/20 00:56	1
13C2 PFHxA	79		150				10/28/20 06:59	11/02/20 00:56	1
13C4 PFHpA	78		150				10/28/20 06:59	11/02/20 00:56	1
13C4 PFOA	76		150				10/28/20 06:59	11/02/20 00:56	1
13C5 PFNA	76		150				10/28/20 06:59	11/02/20 00:56	1
13C2 PFDA	81		150				10/28/20 06:59	11/02/20 00:56	1
13C2 PFUnA	77		150				10/28/20 06:59	11/02/20 00:56	1
13C2 PFDoA	67		150				10/28/20 06:59	11/02/20 00:56	1
13C2 PFTeDA	1		150				10/28/20 06:59	11/02/20 00:56	1
13C3 PFBS	76		150				10/28/20 06:59	11/02/20 00:56	1
18O2 PFHxS	78		150				10/28/20 06:59	11/02/20 00:56	1
13C4 PFOS	76		150				10/28/20 06:59	11/02/20 00:56	1
13C8 FOSA	61		150				10/28/20 06:59	11/02/20 00:56	1
d3-NMeFOSAA	85		150				10/28/20 06:59	11/02/20 00:56	1
NEtFOSAA	74		150				10/28/20 06:59	11/02/20 00:56	1
M2-6:2 FTS			150				10/28/20 06:59	11/02/20 00:56	1
M2-8:2 FTS	8		150				10/28/20 06:59	11/02/20 00:56	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12200		41.9	5.9	mg/Kg	✱	9/20 15:00	30/20 12:50	
Antimony	ND		4.2	.2	mg/Kg	✱	9/20 15:00	30/20 12:50	
Arsenic	8.6		3.1	.64	mg/Kg	✱	9/20 15:00	30/20 12:50	
Barium	109		41.9	4.0	mg/Kg	✱	9/20 15:00	30/20 12:50	
Beryllium	0.62		.42	.067	mg/Kg	✱	9/20 15:00	30/20 12:50	
Cadmium	0.084	J	.84	.072	mg/Kg	✱	9/20 15:00	30/20 12:50	
Calcium	2470		50	77.4	mg/Kg	✱	9/20 15:00	30/20 12:50	
Chromium	17.4		.1	.5	mg/Kg	✱	9/20 15:00	30/20 12:50	
Cobalt	10.7		.5	.58	mg/Kg	✱	9/20 15:00	30/20 12:50	
Copper	26.9		5.2	.3	mg/Kg	✱	9/20 15:00	30/20 12:50	
Iron	22000		31.4	.6	mg/Kg	✱	9/20 15:00	30/20 12:50	
Lea	39.8		.1	.34	mg/Kg	✱	9/20 15:00	30/20 12:50	
Magnesium	3670		50	70.9	mg/Kg	✱	9/20 15:00	30/20 12:50	
Manganese	714		3.1	.24	mg/Kg	✱	9/20 15:00	30/20 12:50	
Nickel	20.7		8.4	.55	mg/Kg	✱	9/20 15:00	30/20 12:50	
Potassium	1240		50	4.3	mg/Kg	✱	9/20 15:00	30/20 12:50	
Selenium	ND		4.2	.71	mg/Kg	✱	9/20 15:00	30/20 12:50	
Silver	ND		.1	.2	mg/Kg	✱	9/20 15:00	30/20 12:50	
Sodium	ND		50	91.1	mg/Kg	✱	9/20 15:00	30/20 12:50	
Thallium	1.0	J	4.2	.65	mg/Kg	✱	9/20 15:00	30/20 12:50	
V nadium	27.2		.5	.97	mg/Kg	✱	9/20 15:00	30/20 12:50	
Zinc	101		.3	.1	mg/Kg	✱	9/20 15:00	30/20 12:50	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		.020	.0048	mg/Kg	✱	8/20 02:58	8/20 07:13	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S6B-SOIL-102120

Lab Sample ID: 460-221262-18

Date Collected: 10/21/20 14:50

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.6	.45	mg/Kg	✱	9/20 09:04	30/20 13:10	
Chromium, hexavalent	ND		.6	.45	mg/Kg	✱	12:08	14:22	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.0		.0	.0	%			7/20 13:18	
Percent Solids	77.0		.0	.0	%			7/20 13:18	

Client Sample ID: S7A-SOIL-102120

Lab Sample ID: 460-221262-19

Date Collected: 10/21/20 15:05

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 73.5

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.21	J	.27	.037	ug/Kg	✱	8/20 06:59	01:24	
Perfluoropentanoic acid (PFPeA)	0.11	J	.27	.10	ug/Kg	✱	8/20 06:59	01:24	
Perfluorohexanoic acid (PFHxA)	0.13	J	.27	.056	ug/Kg	✱	8/20 06:59	01:24	
Perfluoroheptanoic acid (PFHpA)	0.11	J	.27	.039	ug/Kg	✱	8/20 06:59	01:24	
Perfluorooctanoic acid (PFOA)	0.33		.27	.12	ug/Kg	✱	8/20 06:59	01:24	
Perfluorononanoic acid (PFNA)	0.17	J	.27	.048	ug/Kg	✱	8/20 06:59	01:24	
Perfluorodecanoic acid (PFDA)	0.11	J	.27	.029	ug/Kg	✱	8/20 06:59	01:24	
Perfluoroundecanoic acid (PFUnA)	0.11	J	.27	.048	ug/Kg	✱	8/20 06:59	01:24	
Perfluorododecanoic acid (PFDoA)	ND		.27	.090	ug/Kg	✱	8/20 06:59	01:24	
Perfluorotridecanoic acid (PFTriA)	ND		.27	.068	ug/Kg	✱	8/20 06:59	01:24	
Perfluorotetradecanoic acid (PFTeA)	ND		.27	.072	ug/Kg	✱	8/20 06:59	01:24	
Perfluorobutanesulfonic acid (PFBS)	0.059	J	.27	.033	ug/Kg	✱	8/20 06:59	01:24	
Perfluorohexanesulfonic acid (PFHxS)	0.044	J I	.27	.041	ug/Kg	✱	8/20 06:59	01:24	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.27	.047	ug/Kg	✱	8/20 06:59	01:24	
Perfluorooctanesulfonic acid (PFOS)	1.2	B	.67	.27	ug/Kg	✱	8/20 06:59	01:24	
Perfluorodecanesulfonic acid (PFDS)	0.067	J	.27	.052	ug/Kg	✱	8/20 06:59	01:24	
Perfluorooctanesulfonamide (FOSA)	ND		.27	.1	ug/Kg	✱	8/20 06:59	01:24	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.7	.52	ug/Kg	✱	8/20 06:59	01:24	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.7	.50	ug/Kg	✱	8/20 06:59	01:24	
:2 FTS	ND		.7	.20	ug/Kg	✱	8/20 06:59	01:24	
8:2 FTS	ND		.7	.33	ug/Kg	✱	8/20 06:59	01:24	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	65		150				10/28/20 06:59	11/02/20 01:24	1
13C5 PFPeA	6		150				10/28/20 06:59	11/02/20 01:24	1
13C2 PFHxA	69		150				10/28/20 06:59	11/02/20 01:24	1
13C4 PFHpA	68		150				10/28/20 06:59	11/02/20 01:24	1
13C4 PFOA	68		150				10/28/20 06:59	11/02/20 01:24	1
13C5 PFNA	65		150				10/28/20 06:59	11/02/20 01:24	1
13C2 PFDA	70		150				10/28/20 06:59	11/02/20 01:24	1
13C2 PFUnA			150				10/28/20 06:59	11/02/20 01:24	1
13C2 PFDoA	6		150				10/28/20 06:59	11/02/20 01:24	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S7A-SOIL-102120

Lab Sample ID: 460-221262-19

Date Collected: 10/21/20 15:05

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 73.5

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	35		150	10/28/20 06:59	11/02/20 01:24	1
13C3 PFBS	66		150	10/28/20 06:59	11/02/20 01:24	1
18O2 PFHxS	67		150	10/28/20 06:59	11/02/20 01:24	1
13C4 PFOS	62		150	10/28/20 06:59	11/02/20 01:24	1
13C8 FOSA	7		150	10/28/20 06:59	11/02/20 01:24	1
d3-NMeFOSAA	67		150	10/28/20 06:59	11/02/20 01:24	1
NEtFOSAA	69		150	10/28/20 06:59	11/02/20 01:24	1
M2-6:2 FTS	85		150	10/28/20 06:59	11/02/20 01:24	1
M2-8:2 FTS	86		150	10/28/20 06:59	11/02/20 01:24	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9130		41.8	5.9	mg/Kg	✱	9/20 15:00	30/20 12:54	
Antimony	ND		4.2	.2	mg/Kg	✱	9/20 15:00	30/20 12:54	
Arsenic	7.2		3.1	.64	mg/Kg	✱	9/20 15:00	30/20 12:54	
Barium	81.6		41.8	4.0	mg/Kg	✱	9/20 15:00	30/20 12:54	
Beryllium	0.43		.42	.067	mg/Kg	✱	9/20 15:00	30/20 12:54	
Cadmium	0.31	J	.84	.072	mg/Kg	✱	9/20 15:00	30/20 12:54	
Calcium	4370		50	77.3	mg/Kg	✱	9/20 15:00	30/20 12:54	
Chromium	14.0		.1	.5	mg/Kg	✱	9/20 15:00	30/20 12:54	
Cobalt	8.1	J	.5	.58	mg/Kg	✱	9/20 15:00	30/20 12:54	
Copper	25.2		5.2	.3	mg/Kg	✱	9/20 15:00	30/20 12:54	
Iron	18600		31.4	.6	mg/Kg	✱	9/20 15:00	30/20 12:54	
Lea	23.0		.1	.34	mg/Kg	✱	9/20 15:00	30/20 12:54	
Magnesium	3810		50	70.8	mg/Kg	✱	9/20 15:00	30/20 12:54	
Manganese	447		3.1	.24	mg/Kg	✱	9/20 15:00	30/20 12:54	
Nickel	17.7		8.4	.55	mg/Kg	✱	9/20 15:00	30/20 12:54	
Potassium	1470		50	4.2	mg/Kg	✱	9/20 15:00	30/20 12:54	
Selenium	1.3	J	4.2	.71	mg/Kg	✱	9/20 15:00	30/20 12:54	
Silver	ND		.1	.2	mg/Kg	✱	9/20 15:00	30/20 12:54	
Sodium	ND		50	91.0	mg/Kg	✱	9/20 15:00	30/20 12:54	
Thallium	ND		4.2	.65	mg/Kg	✱	9/20 15:00	30/20 12:54	
V nadium	22.1		.5	.97	mg/Kg	✱	9/20 15:00	30/20 12:54	
Zinc	76.5		.3	.1	mg/Kg	✱	9/20 15:00	30/20 12:54	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		.023	.0054	mg/Kg	✱	8/20 03:25	8/20 07:37	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.7	.47	mg/Kg	✱	9/20 09:04	30/20 13:10	
Chromium, hexavalent	ND		.7	.47	mg/Kg	✱	12:08	14:22	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.5		.0	.0	%			7/20 13:18	
Percent Solids	73.5		.0	.0	%			7/20 13:18	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S7B-SOIL-102120

Lab Sample ID: 460-221262-20

Date Collected: 10/21/20 15:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.16	J	.25	.035	ug/Kg	✱	8/20 06:59	01:34	
Perfluoropentanoic acid (PFPeA)	ND		.25	.096	ug/Kg	✱	8/20 06:59	01:34	
Perfluorohexanoic acid (PFHxA)	0.12	J	.25	.053	ug/Kg	✱	8/20 06:59	01:34	
Perfluoroheptanoic acid (PFHpA)	0.085	J	.25	.036	ug/Kg	✱	8/20 06:59	01:34	
Perfluorooctanoic acid (PFOA)	0.29		.25	.1	ug/Kg	✱	8/20 06:59	01:34	
Perfluorononanoic acid (PFNA)	0.16	J	.25	.045	ug/Kg	✱	8/20 06:59	01:34	
Perfluorodecanoic acid (PFDA)	0.16	J	.25	.028	ug/Kg	✱	8/20 06:59	01:34	
Perfluoroundecanoic acid (PFUnA)	0.12	J	.25	.045	ug/Kg	✱	8/20 06:59	01:34	
Perfluorododecanoic acid (PFDoA)	ND		.25	.084	ug/Kg	✱	8/20 06:59	01:34	
Perfluorotridecanoic acid (PFTriA)	ND		.25	.064	ug/Kg	✱	8/20 06:59	01:34	
Perfluorotetradecanoic acid (PFTeA)	ND		.25	.068	ug/Kg	✱	8/20 06:59	01:34	
Perfluorobutanesulfonic acid (PFBS)	0.056	J	.25	.031	ug/Kg	✱	8/20 06:59	01:34	
Perfluorohexanesulfonic acid (PFHxS)	ND		.25	.039	ug/Kg	✱	8/20 06:59	01:34	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.25	.044	ug/Kg	✱	8/20 06:59	01:34	
Perfluorooctanesulfonic acid (PFOS)	1.1	B	.63	.25	ug/Kg	✱	8/20 06:59	01:34	
Perfluorodecanesulfonic acid (PFDS)	0.075	J	.25	.049	ug/Kg	✱	8/20 06:59	01:34	
Perfluorooctanesulfonamide (FOSA)	ND		.25	.10	ug/Kg	✱	8/20 06:59	01:34	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.5	.49	ug/Kg	✱	8/20 06:59	01:34	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.5	.46	ug/Kg	✱	8/20 06:59	01:34	
:2 FTS	ND		.5	.19	ug/Kg	✱	8/20 06:59	01:34	
8:2 FTS	ND		.5	.31	ug/Kg	✱	8/20 06:59	01:34	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	1		150	10/28/20 06:59	11/02/20 01:34	1
13C5 PFPeA	43		150	10/28/20 06:59	11/02/20 01:34	1
13C2 PFHxA			150	10/28/20 06:59	11/02/20 01:34	1
13C4 PFHpA	8		150	10/28/20 06:59	11/02/20 01:34	1
13C4 PFOA			150	10/28/20 06:59	11/02/20 01:34	1
13C5 PFNA	60		150	10/28/20 06:59	11/02/20 01:34	1
13C2 PFDA	8		150	10/28/20 06:59	11/02/20 01:34	1
13C2 PFUnA	60		150	10/28/20 06:59	11/02/20 01:34	1
13C2 PFDoA	48		150	10/28/20 06:59	11/02/20 01:34	1
13C2 PFTeDA			150	10/28/20 06:59	11/02/20 01:34	1
13C3 PFBS	6		150	10/28/20 06:59	11/02/20 01:34	1
18O2 PFHxS	61		150	10/28/20 06:59	11/02/20 01:34	1
13C4 PFOS	60		150	10/28/20 06:59	11/02/20 01:34	1
13C8 FOSA	43		150	10/28/20 06:59	11/02/20 01:34	1
d3-NMeFOSAA	61		150	10/28/20 06:59	11/02/20 01:34	1
NEtFOSAA	7		150	10/28/20 06:59	11/02/20 01:34	1
M2-6:2 FTS	79		150	10/28/20 06:59	11/02/20 01:34	1
M2-8:2 FTS	85		150	10/28/20 06:59	11/02/20 01:34	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9790		38.5	5.5	mg/Kg	✱	9/20 15:00	30/20 12:58	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S7B-SOIL-102120

Lab Sample ID: 460-221262-20

Date Collected: 10/21/20 15:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.2

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.9	.1	mg/Kg	✱	9/20 15:00	30/20 12:58	
Arsenic	7.4		.9	.59	mg/Kg	✱	9/20 15:00	30/20 12:58	
Barium	83.5		38.5	3.7	mg/Kg	✱	9/20 15:00	30/20 12:58	
Beryllium	0.43		.39	.062	mg/Kg	✱	9/20 15:00	30/20 12:58	
Cadmium	0.26	J	.77	.066	mg/Kg	✱	9/20 15:00	30/20 12:58	
Calcium	5300		963	71.2	mg/Kg	✱	9/20 15:00	30/20 12:58	
Chromium	15.8		.9	.4	mg/Kg	✱	9/20 15:00	30/20 12:58	
Cobalt	8.7	J	9.6	.53	mg/Kg	✱	9/20 15:00	30/20 12:58	
Copper	24.9		4.8	.2	mg/Kg	✱	9/20 15:00	30/20 12:58	
Iron	20100		8.9	9.8	mg/Kg	✱	9/20 15:00	30/20 12:58	
Lea	25.7		.9	.31	mg/Kg	✱	9/20 15:00	30/20 12:58	
Magnesium	4330		963	5.2	mg/Kg	✱	9/20 15:00	30/20 12:58	
Manganese	491		.9	.22	mg/Kg	✱	9/20 15:00	30/20 12:58	
Nickel	19.3		7.7	.51	mg/Kg	✱	9/20 15:00	30/20 12:58	
Potassium	1430		963	59.2	mg/Kg	✱	9/20 15:00	30/20 12:58	
Selenium	ND		3.9	.65	mg/Kg	✱	9/20 15:00	30/20 12:58	
Silver	ND		.9	.1	mg/Kg	✱	9/20 15:00	30/20 12:58	
Sodium	ND		963	83.8	mg/Kg	✱	9/20 15:00	30/20 12:58	
Thallium	0.96	J	3.9	.60	mg/Kg	✱	9/20 15:00	30/20 12:58	
V nadium	22.9		9.6	.90	mg/Kg	✱	9/20 15:00	30/20 12:58	
Zinc	78.9		5.8	.1	mg/Kg	✱	9/20 15:00	30/20 12:58	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		.021	.0050	mg/Kg	✱	8/20 03:25	8/20 07:39	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.5	.44	mg/Kg	✱	9/20 09:04	30/20 13:10	
Chromium, hexavalent	ND		.5	.44	mg/Kg	✱	12:08	14:22	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.8		.0	.0	%			7/20 13:18	
Percent Solids	79.2		.0	.0	%			7/20 13:18	

Client Sample ID: S8A-SOIL-102120

Lab Sample ID: 460-221262-21

Date Collected: 10/21/20 14:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 76.2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.10	J	.24	.034	ug/Kg	✱	8/20 06:59	01:43	
Perfluoropentanoic acid (PFPeA)	0.20	J	.24	.093	ug/Kg	✱	8/20 06:59	01:43	
Perfluorohexanoic acid (PFHxA)	0.24		.24	.051	ug/Kg	✱	8/20 06:59	01:43	
Perfluoroheptanoic acid (PFHpA)	0.090	J	.24	.035	ug/Kg	✱	8/20 06:59	01:43	
Perfluorooctanoic acid (PFOA)	0.39		.24	.10	ug/Kg	✱	8/20 06:59	01:43	
Perfluorononanoic acid (PFNA)	2.4		.24	.043	ug/Kg	✱	8/20 06:59	01:43	
Perfluorodecanoic acid (PFDA)	0.91		.24	.027	ug/Kg	✱	8/20 06:59	01:43	
Perfluoroundecanoic acid (PFUnA)	1.8		.24	.043	ug/Kg	✱	8/20 06:59	01:43	
Perfluorododecanoic acid (PFDoA)	0.47		.24	.081	ug/Kg	✱	8/20 06:59	01:43	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S8A-SOIL-102120

Lab Sample ID: 460-221262-21

Date Collected: 10/21/20 14:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 76.2

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTriA)	0.31		.24	.062	ug/Kg	✱	8/20 06:59	01:43	
Perfluorotetradecanoic acid (PFTeA)	0.14	J	.24	.065	ug/Kg	✱	8/20 06:59	01:43	
Perfluorobutanesulfonic acid (PFBS)	0.15	J	.24	.030	ug/Kg	✱	8/20 06:59	01:43	
Perfluorohexanesulfonic acid (PFHxS)	ND		.24	.037	ug/Kg	✱	8/20 06:59	01:43	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.24	.042	ug/Kg	✱	8/20 06:59	01:43	
Perfluorooctanesulfonic acid (PFOS)	4.2	B	.60	.24	ug/Kg	✱	8/20 06:59	01:43	
Perfluorodecanesulfonic acid (PFDS)	5.9		.24	.047	ug/Kg	✱	8/20 06:59	01:43	
Perfluorooctanesulfonamide (FOSA)	ND		.24	.099	ug/Kg	✱	8/20 06:59	01:43	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.4	.47	ug/Kg	✱	8/20 06:59	01:43	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.4	J	.4	.45	ug/Kg	✱	8/20 06:59	01:43	
:2 FTS	ND		.4	.18	ug/Kg	✱	8/20 06:59	01:43	
8:2 FTS	ND		.4	.30	ug/Kg	✱	8/20 06:59	01:43	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	1		150	10/28/20 06:59	11/02/20 01:43	1
13C5 PFPeA	42		150	10/28/20 06:59	11/02/20 01:43	1
13C2 PFHxA	61		150	10/28/20 06:59	11/02/20 01:43	1
13C4 PFHpA	63		150	10/28/20 06:59	11/02/20 01:43	1
13C4 PFOA	63		150	10/28/20 06:59	11/02/20 01:43	1
13C5 PFNA	61		150	10/28/20 06:59	11/02/20 01:43	1
13C2 PFDA	71		150	10/28/20 06:59	11/02/20 01:43	1
13C2 PFUnA	61		150	10/28/20 06:59	11/02/20 01:43	1
13C2 PFDoA	4		150	10/28/20 06:59	11/02/20 01:43	1
13C2 PFTeDA	40		150	10/28/20 06:59	11/02/20 01:43	1
13C3 PFBS	61		150	10/28/20 06:59	11/02/20 01:43	1
18O2 PFHxS	70		150	10/28/20 06:59	11/02/20 01:43	1
13C4 PFOS	65		150	10/28/20 06:59	11/02/20 01:43	1
13C8 FOSA	0		150	10/28/20 06:59	11/02/20 01:43	1
d3-NMeFOSAA			150	10/28/20 06:59	11/02/20 01:43	1
NEtFOSAA	6		150	10/28/20 06:59	11/02/20 01:43	1
M2-6:2 FTS	89		150	10/28/20 06:59	11/02/20 01:43	1
M2-8:2 FTS	87		150	10/28/20 06:59	11/02/20 01:43	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7790		42.3	.0	mg/Kg	✱	9/20 15:00	30/20 13:02	
Antimony	ND		4.2	.2	mg/Kg	✱	9/20 15:00	30/20 13:02	
Arsenic	10.5		3.2	.65	mg/Kg	✱	9/20 15:00	30/20 13:02	
Barium	88.2		42.3	4.1	mg/Kg	✱	9/20 15:00	30/20 13:02	
Beryllium	0.31	J	.42	.068	mg/Kg	✱	9/20 15:00	30/20 13:02	
Cadmium	0.23	J	.85	.073	mg/Kg	✱	9/20 15:00	30/20 13:02	
Calcium	3320			78.2	mg/Kg	✱	9/20 15:00	30/20 13:02	
Chromium	15.8		.1	.5	mg/Kg	✱	9/20 15:00	30/20 13:02	
Cobalt	6.1	J	.6	.59	mg/Kg	✱	9/20 15:00	30/20 13:02	
Copper	32.6		5.3	.3	mg/Kg	✱	9/20 15:00	30/20 13:02	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S8A-SOIL-102120

Lab Sample ID: 460-221262-21

Date Collected: 10/21/20 14:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 76.2

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14200		31.7	.8	mg/Kg	✱	9/20 15:00	30/20 13:02	
Lea	48.8		.1	.34	mg/Kg	✱	9/20 15:00	30/20 13:02	
Magnesium	2550			71.6	mg/Kg	✱	9/20 15:00	30/20 13:02	
Manganese	332		3.2	.24	mg/Kg	✱	9/20 15:00	30/20 13:02	
Nickel	15.6		8.5	.56	mg/Kg	✱	9/20 15:00	30/20 13:02	
Potassium	960	J		5.0	mg/Kg	✱	9/20 15:00	30/20 13:02	
Selenium	ND		4.2	.72	mg/Kg	✱	9/20 15:00	30/20 13:02	
Silver	ND		.1	.2	mg/Kg	✱	9/20 15:00	30/20 13:02	
Sodium	150	J		92.1	mg/Kg	✱	9/20 15:00	30/20 13:02	
Thallium	ND		4.2	.66	mg/Kg	✱	9/20 15:00	30/20 13:02	
V nadium	23.4		.6	.98	mg/Kg	✱	9/20 15:00	30/20 13:02	
Zinc	96.9		.3	.2	mg/Kg	✱	9/20 15:00	30/20 13:02	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		.021	.0050	mg/Kg	✱	8/20 03:25	8/20 07:41	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.6	.46	mg/Kg	✱	9/20 09:04	30/20 13:10	
Chromium, hexavalent	ND		.6	.45	mg/Kg	✱	12:08	14:22	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.8		.0	.0	%			7/20 13:19	
Percent Solids	76.2		.0	.0	%			7/20 13:19	

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.6

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.20	J	.24	.034	ug/Kg	✱	8/20 06:59	01:52	
Perfluoropentanoic acid (PFPeA)	0.28		.24	.093	ug/Kg	✱	8/20 06:59	01:52	
Perfluorohexanoic acid (PFHxA)	0.28		.24	.051	ug/Kg	✱	8/20 06:59	01:52	
Perfluoroheptanoic acid (PFHpA)	0.13	J	.24	.035	ug/Kg	✱	8/20 06:59	01:52	
Perfluorooctanoic acid (PFOA)	0.42		.24	.10	ug/Kg	✱	8/20 06:59	01:52	
Perfluorononanoic acid (PFNA)	2.4		.24	.043	ug/Kg	✱	8/20 06:59	01:52	
Perfluorodecanoic acid (PFDA)	0.88		.24	.027	ug/Kg	✱	8/20 06:59	01:52	
Perfluoroundecanoic acid (PFUnA)	1.8		.24	.043	ug/Kg	✱	8/20 06:59	01:52	
Perfluorododecanoic acid (PFDoA)	0.35		.24	.081	ug/Kg	✱	8/20 06:59	01:52	
Perfluorotridecanoic acid (PFTriA)	0.26		.24	.061	ug/Kg	✱	8/20 06:59	01:52	
Perfluorotetradecanoic acid (PFTeA)	0.13	J	.24	.065	ug/Kg	✱	8/20 06:59	01:52	
Perfluorobutanesulfonic acid (PFBS)	0.12	J	.24	.030	ug/Kg	✱	8/20 06:59	01:52	
Perfluorohexanesulfonic acid (PFHxS)	ND		.24	.037	ug/Kg	✱	8/20 06:59	01:52	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.24	.042	ug/Kg	✱	8/20 06:59	01:52	
Perfluorooctanesulfonic acid (PFOS)	4.5	B	.60	.24	ug/Kg	✱	8/20 06:59	01:52	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	5.7		.24	.047	ug/Kg	✱	8/20 06:59	01:52	
Perfluorooctanesulfonamide (FOSA)	ND		.24	.099	ug/Kg	✱	8/20 06:59	01:52	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.4	.47	ug/Kg	✱	8/20 06:59	01:52	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.5	J	.4	.45	ug/Kg	✱	8/20 06:59	01:52	
2:2 FTS	ND		.4	.18	ug/Kg	✱	8/20 06:59	01:52	
8:2 FTS	ND		.4	.30	ug/Kg	✱	8/20 06:59	01:52	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	3		150				10/28/20 06:59	11/02/20 01:52	1
13C5 PFPeA	44		150				10/28/20 06:59	11/02/20 01:52	1
13C2 PFHxA			150				10/28/20 06:59	11/02/20 01:52	1
13C4 PFHpA	61		150				10/28/20 06:59	11/02/20 01:52	1
13C4 PFOA			150				10/28/20 06:59	11/02/20 01:52	1
13C5 PFNA	7		150				10/28/20 06:59	11/02/20 01:52	1
13C2 PFDA	60		150				10/28/20 06:59	11/02/20 01:52	1
13C2 PFUnA	6		150				10/28/20 06:59	11/02/20 01:52	1
13C2 PFDoA	4		150				10/28/20 06:59	11/02/20 01:52	1
13C2 PFTeDA	38		150				10/28/20 06:59	11/02/20 01:52	1
13C3 PFBS	7		150				10/28/20 06:59	11/02/20 01:52	1
18O2 PFHxS	62		150				10/28/20 06:59	11/02/20 01:52	1
13C4 PFOS	7		150				10/28/20 06:59	11/02/20 01:52	1
13C8 FOSA	48		150				10/28/20 06:59	11/02/20 01:52	1
d3-NMeFOSAA	8		150				10/28/20 06:59	11/02/20 01:52	1
NEtFOSAA	49		150				10/28/20 06:59	11/02/20 01:52	1
M2-6:2 FTS	81		150				10/28/20 06:59	11/02/20 01:52	1
M2-8:2 FTS	81		150				10/28/20 06:59	11/02/20 01:52	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7530		39.5	5.6	mg/Kg	✱	9/20 15:00	30/20 13:06	
Antimony	ND		4.0	.1	mg/Kg	✱	9/20 15:00	30/20 13:06	
Arsenic	9.9		3.0	.61	mg/Kg	✱	9/20 15:00	30/20 13:06	
Barium	86.8		39.5	3.8	mg/Kg	✱	9/20 15:00	30/20 13:06	
Beryllium	0.31	J	.40	.063	mg/Kg	✱	9/20 15:00	30/20 13:06	
Cadmium	0.23	J	.79	.068	mg/Kg	✱	9/20 15:00	30/20 13:06	
Calcium	3120		989	73.1	mg/Kg	✱	9/20 15:00	30/20 13:06	
Chromium	15.3		.0	.4	mg/Kg	✱	9/20 15:00	30/20 13:06	
Cobalt	5.8	J	9.9	.55	mg/Kg	✱	9/20 15:00	30/20 13:06	
Copper	32.6		4.9	.2	mg/Kg	✱	9/20 15:00	30/20 13:06	
Iron	14200		9.7	.4	mg/Kg	✱	9/20 15:00	30/20 13:06	
Lead	73.0		.0	.32	mg/Kg	✱	9/20 15:00	30/20 13:06	
Magnesium	2460		989	.9	mg/Kg	✱	9/20 15:00	30/20 13:06	
Manganese	341		3.0	.22	mg/Kg	✱	9/20 15:00	30/20 13:06	
Nickel	15.5		7.9	.52	mg/Kg	✱	9/20 15:00	30/20 13:06	
Potassium	858	J	989	.7	mg/Kg	✱	9/20 15:00	30/20 13:06	
Selenium	ND		4.0	.67	mg/Kg	✱	9/20 15:00	30/20 13:06	
Silver	ND		.0	.1	mg/Kg	✱	9/20 15:00	30/20 13:06	
Sodium	132	J	989	86.0	mg/Kg	✱	9/20 15:00	30/20 13:06	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.6

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		4.0	.61	mg/Kg	✱	9/20 15:00	30/20 13:06	
V nadium	23.3		9.9	.92	mg/Kg	✱	9/20 15:00	30/20 13:06	
Zinc	91.6		5.9	.1	mg/Kg	✱	9/20 15:00	30/20 13:06	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080		.020	.0047	mg/Kg	✱	8/20 03:25	8/20 07:43	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.5	.44	mg/Kg	✱	9/20 09:04	30/20 13:10	
Chromium, hexavalent	ND		.5	.43	mg/Kg	✱	12:08	14:22	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.4		.0	.0	%			7/20 13:19	
Percent Solids	79.6		.0	.0	%			7/20 13:19	

Client Sample ID: S9A-SOIL-102120

Lab Sample ID: 460-221262-23

Date Collected: 10/21/20 15:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 74.8

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.24	J B	.25	.035	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluoropentanoic acid (PFPeA)	0.21	J	.25	.097	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorohexanoic acid (PFHxA)	0.22	J	.25	.053	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluoroheptanoic acid (PFHpA)	0.15	J	.25	.036	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorooctanoic acid (PFOA)	0.54		.25	.1	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorononanoic acid (PFNA)	0.23	J	.25	.045	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorodecanoic acid (PFDA)	0.25		.25	.028	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluoroundecanoic acid (PFUnA)	0.22	J	.25	.045	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorododecanoic acid (PFDoA)	0.12	J	.25	.084	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorotridecanoic acid (PFTriA)	ND		.25	.064	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorotetradecanoic acid (PFTeA)	ND		.25	.068	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorobutanesulfonic acid (PFBS)	0.092	J	.25	.031	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorohexanesulfonic acid (PFHxS)	0.075	J I	.25	.039	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.25	.044	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorooctanesulfonic acid (PFOS)	3.0	B *	.63	.25	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorodecanesulfonic acid (PFDS)	0.19	J *	.25	.049	ug/Kg	✱	8/20 07:03	30/20 21:56	
Perfluorooctanesulfonamide (FOSA)	ND		.25	.10	ug/Kg	✱	8/20 07:03	30/20 21:56	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.5	.49	ug/Kg	✱	8/20 07:03	30/20 21:56	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.5	.46	ug/Kg	✱	8/20 07:03	30/20 21:56	
:2 FTS	ND		.5	.19	ug/Kg	✱	8/20 07:03	30/20 21:56	
8:2 FTS	ND		.5	.31	ug/Kg	✱	8/20 07:03	30/20 21:56	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S9A-SOIL-102120

Lab Sample ID: 460-221262-23

Date Collected: 10/21/20 15:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 74.8

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	80		150	10/28/20 07:03	10/30/20 21:56	1
13C5 PFPeA	71		150	10/28/20 07:03	10/30/20 21:56	1
13C2 PFHxA	89		150	10/28/20 07:03	10/30/20 21:56	1
13C4 PFHpA	0		150	10/28/20 07:03	10/30/20 21:56	1
13C4 PFOA	3		150	10/28/20 07:03	10/30/20 21:56	1
13C5 PFNA	84		150	10/28/20 07:03	10/30/20 21:56	1
13C2 PFDA	87		150	10/28/20 07:03	10/30/20 21:56	1
13C2 PFUnA	80		150	10/28/20 07:03	10/30/20 21:56	1
13C2 PFDoA	79		150	10/28/20 07:03	10/30/20 21:56	1
13C2 PFTeDA	74		150	10/28/20 07:03	10/30/20 21:56	1
13C3 PFBS	88		150	10/28/20 07:03	10/30/20 21:56	1
18O2 PFHxS	87		150	10/28/20 07:03	10/30/20 21:56	1
13C4 PFOS	85		150	10/28/20 07:03	10/30/20 21:56	1
13C8 FOSA	79		150	10/28/20 07:03	10/30/20 21:56	1
d3-NMeFOSAA	3		150	10/28/20 07:03	10/30/20 21:56	1
NEtFOSAA	4		150	10/28/20 07:03	10/30/20 21:56	1
M2-6:2 FTS	127		150	10/28/20 07:03	10/30/20 21:56	1
M2-8:2 FTS	133		150	10/28/20 07:03	10/30/20 21:56	1

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	2.7	H B	.64	.26	ug/Kg	☼	9/20 15:20	1 :06	
Perfluorodecanesulfonic acid (PFDS)	0.18	J H	.26	.050	ug/Kg	☼	9/20 15:20	1 :06	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	83		150				11/09/20 15:20	11/11/20 11:06	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9210		41.1	5.8	mg/Kg	✱	9/20 15:00	30/20 13:18	
Antimony	ND		4.1	.2	mg/Kg	✱	9/20 15:00	30/20 13:18	
Arsenic	7.8		3.1	.63	mg/Kg	✱	9/20 15:00	30/20 13:18	
Barium	101		41.1	4.0	mg/Kg	✱	9/20 15:00	30/20 13:18	
Beryllium	0.43		.41	.066	mg/Kg	✱	9/20 15:00	30/20 13:18	
Cadmium	0.18	J	.82	.071	mg/Kg	✱	9/20 15:00	30/20 13:18	
Calcium	3930		30	76.0	mg/Kg	✱	9/20 15:00	30/20 13:18	
Chromium	15.5		.1	.5	mg/Kg	✱	9/20 15:00	30/20 13:18	
Cobalt	8.2	J	.3	.57	mg/Kg	✱	9/20 15:00	30/20 13:18	
Copper	28.1		5.1	.3	mg/Kg	✱	9/20 15:00	30/20 13:18	
Iron	18000		30.9	.2	mg/Kg	✱	9/20 15:00	30/20 13:18	
Lea	34.2		.1	.33	mg/Kg	✱	9/20 15:00	30/20 13:18	
Magnesium	3460		30	9.6	mg/Kg	✱	9/20 15:00	30/20 13:18	
Manganese	432		3.1	.23	mg/Kg	✱	9/20 15:00	30/20 13:18	
Nickel	18.9		8.2	.54	mg/Kg	✱	9/20 15:00	30/20 13:18	
Potassium	1300		30	3.2	mg/Kg	✱	9/20 15:00	30/20 13:18	
Selenium	0.92	J	4.1	.70	mg/Kg	✱	9/20 15:00	30/20 13:18	
Silver	ND		.1	.2	mg/Kg	✱	9/20 15:00	30/20 13:18	
Sodium	106	J	30	89.5	mg/Kg	✱	9/20 15:00	30/20 13:18	
Thallium	ND		4.1	.64	mg/Kg	✱	9/20 15:00	30/20 13:18	
V nadium	24.2		.3	.96	mg/Kg	✱	9/20 15:00	30/20 13:18	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S9A-SOIL-102120

Lab Sample ID: 460-221262-23

Date Collected: 10/21/20 15:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 74.8

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	104		.2	.1	mg/Kg	☆	9/20 15:00	30/20 13:18	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.086		.022	.0052	mg/Kg	☆	8/20 03:25	8/20 07:45	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.7	.47	mg/Kg	☆	9/20 09:04	30/20 13:10	
Chromium, hexavalent	ND		.7	.47	mg/Kg	☆	12:08	14:22	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.2		.0	.0	%			7/20 13:49	
Percent Solids	74.8		.0	.0	%			7/20 13:49	

Client Sample ID: S9B-SOIL-102120

Lab Sample ID: 460-221262-24

Date Collected: 10/21/20 15:45

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.19	J B	.25	.035	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluoropentanoic acid (PFPeA)	0.20	J	.25	.096	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorohexanoic acid (PFHxA)	0.20	J	.25	.053	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluoroheptanoic acid (PFHpA)	0.15	J	.25	.036	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorooctanoic acid (PFOA)	0.60		.25	.1	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorononanoic acid (PFNA)	0.24	J	.25	.045	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorodecanoic acid (PFDA)	0.27		.25	.028	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluoroundecanoic acid (PFUnA)	0.22	J F1	.25	.045	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorododecanoic acid (PFDoA)	0.14	J	.25	.084	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorotridecanoic acid (PFTriA)	ND		.25	.064	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorotetradecanoic acid (PFTeA)	ND		.25	.068	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorobutanesulfonic acid (PFBS)	0.079	J	.25	.031	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorohexanesulfonic acid (PFHxS)	0.073	J	.25	.039	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.25	.044	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorooctanesulfonic acid (PFOS)	2.9	B *	.63	.25	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorodecanesulfonic acid (PFDS)	0.16	J *	.25	.049	ug/Kg	☆	8/20 07:03	30/20 22:06	
Perfluorooctanesulfonamide (FOSA)	ND		.25	.10	ug/Kg	☆	8/20 07:03	30/20 22:06	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.5	.49	ug/Kg	☆	8/20 07:03	30/20 22:06	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.5	.46	ug/Kg	☆	8/20 07:03	30/20 22:06	
:2 FTS	ND		.5	.19	ug/Kg	☆	8/20 07:03	30/20 22:06	
8:2 FTS	ND		.5	.31	ug/Kg	☆	8/20 07:03	30/20 22:06	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C4 PFBA	78		150				10/28/20 07:03	10/30/20 22:06	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S9B-SOIL-102120

Lab Sample ID: 460-221262-24

Date Collected: 10/21/20 15:45

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	65		150	10/28/20 07:03	10/30/20 22:06	1
13C2 PFHxA	88		150	10/28/20 07:03	10/30/20 22:06	1
13C4 PFHpA	88		150	10/28/20 07:03	10/30/20 22:06	1
13C4 PFOA	86		150	10/28/20 07:03	10/30/20 22:06	1
13C5 PFNA	89		150	10/28/20 07:03	10/30/20 22:06	1
13C2 PFDA	82		150	10/28/20 07:03	10/30/20 22:06	1
13C2 PFUnA	74		150	10/28/20 07:03	10/30/20 22:06	1
13C2 PFDoA	66		150	10/28/20 07:03	10/30/20 22:06	1
13C2 PFTeDA	64		150	10/28/20 07:03	10/30/20 22:06	1
13C3 PFBS	78		150	10/28/20 07:03	10/30/20 22:06	1
18O2 PFHxS	84		150	10/28/20 07:03	10/30/20 22:06	1
13C4 PFOS	84		150	10/28/20 07:03	10/30/20 22:06	1
13C8 FOSA	74		150	10/28/20 07:03	10/30/20 22:06	1
d3-NMeFOSAA	88		150	10/28/20 07:03	10/30/20 22:06	1
NEtFOSAA	0		150	10/28/20 07:03	10/30/20 22:06	1
M2-6:2 FTS	116		150	10/28/20 07:03	10/30/20 22:06	1
M2-8:2 FTS	124		150	10/28/20 07:03	10/30/20 22:06	1

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	2.9	H B	.64	.26	ug/Kg	☼	9/20 15:20	1 :15	
Perfluorodecanesulfonic acid (PFDS)	0.20	J H	.26	.050	ug/Kg	☼	9/20 15:20	1 :15	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	83		150				11/09/20 15:20	11/11/20 11:15	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10300		39.1	5.5	mg/Kg	✱	9/20 15:00	30/20 12:03	
Antimony	ND	F1	3.9	.1	mg/Kg	✱	9/20 15:00	30/20 12:03	
Arsenic	7.8		.9	.60	mg/Kg	✱	9/20 15:00	30/20 12:03	
Barium	103		39.1	3.8	mg/Kg	✱	9/20 15:00	30/20 12:03	
Beryllium	0.45		.39	.062	mg/Kg	✱	9/20 15:00	30/20 12:03	
Cadmium	0.15	J	.78	.067	mg/Kg	✱	9/20 15:00	30/20 12:03	
Calcium	4120		976	72.2	mg/Kg	✱	9/20 15:00	30/20 12:03	
Chromium	16.4		.0	.4	mg/Kg	✱	9/20 15:00	30/20 12:03	
Cobalt	8.4	J	9.8	.54	mg/Kg	✱	9/20 15:00	30/20 12:03	
Copper	29.1		4.9	.2	mg/Kg	✱	9/20 15:00	30/20 12:03	
Iron	19700		9.3	.1	mg/Kg	✱	9/20 15:00	30/20 12:03	
Lea	36.5		.0	.32	mg/Kg	✱	9/20 15:00	30/20 12:03	
Magnesium	3630		976	.1	mg/Kg	✱	9/20 15:00	30/20 12:03	
Manganese	441		.9	.22	mg/Kg	✱	9/20 15:00	30/20 12:03	
Nickel	19.3		7.8	.51	mg/Kg	✱	9/20 15:00	30/20 12:03	
Potassium	1520		976	59.9	mg/Kg	✱	9/20 15:00	30/20 12:03	
Selenium	0.80	J	3.9	.66	mg/Kg	✱	9/20 15:00	30/20 12:03	
Silver	ND		.0	.1	mg/Kg	✱	9/20 15:00	30/20 12:03	
Sodium	113	J	976	84.9	mg/Kg	✱	9/20 15:00	30/20 12:03	
Thallium	0.86	J	3.9	.61	mg/Kg	✱	9/20 15:00	30/20 12:03	
V nadium	26.1		9.8	.91	mg/Kg	✱	9/20 15:00	30/20 12:03	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S9B-SOIL-102120

Lab Sample ID: 460-221262-24

Date Collected: 10/21/20 15:45

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

Method: 6010D - Metals (ICP) (Continued)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	112		5.9	.1	mg/Kg	☆	9/20 15:00	30/20 12:03	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068		.021	.0050	mg/Kg	☆	8/20 02:58	8/20 06:21	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND	F1	.6	.45	mg/Kg	☆	9/20 09:04	30/20 13:35	
Chromium, hexavalent	ND	F1	.6	.45	mg/Kg	☆	12:08	14:22	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.0		.0	.0	%			7/20 13:49	
Percent Solids	77.0		.0	.0	%			7/20 13:49	

Client Sample ID: Equipment Blank 102120

Lab Sample ID: 460-221262-25

Date Collected: 10/21/20 14:30

Matrix: W ter

Date Received: 10/23/20 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6	.2	ng/L		7/20 18:39	9/20 00:09	
Perfluoropentanoic acid (PFPeA)	ND		.8	.45	ng/L		7/20 18:39	9/20 00:09	
Perfluorohexanoic acid (PFHxA)	ND		.8	.53	ng/L		7/20 18:39	9/20 00:09	
Perfluoroheptanoic acid (PFHpA)	ND		.8	.23	ng/L		7/20 18:39	9/20 00:09	
Perfluorooctanoic acid (PFOA)	ND		.8	.78	ng/L		7/20 18:39	9/20 00:09	
Perfluorononanoic acid (PFNA)	ND		.8	.25	ng/L		7/20 18:39	9/20 00:09	
Perfluorodecanoic acid (PFDA)	ND		.8	.28	ng/L		7/20 18:39	9/20 00:09	
Perfluoroundecanoic acid (PFUnA)	ND		.8	.0	ng/L		7/20 18:39	9/20 00:09	
Perfluorododecanoic acid (PFDoA)	ND		.8	.50	ng/L		7/20 18:39	9/20 00:09	
Perfluorotridecanoic acid (PFTriA)	ND		.8	.2	ng/L		7/20 18:39	9/20 00:09	
Perfluorotetradecanoic acid (PFTeA)	ND		.8	.67	ng/L		7/20 18:39	9/20 00:09	
Perfluorobutanesulfonic acid (PFBS)	ND		.8	.18	ng/L		7/20 18:39	9/20 00:09	
Perfluorohexanesulfonic acid (PFHxS)	ND		.8	.52	ng/L		7/20 18:39	9/20 00:09	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.8	.17	ng/L		7/20 18:39	9/20 00:09	
Perfluorooctanesulfonic acid (PFOS)	ND		.8	.49	ng/L		7/20 18:39	9/20 00:09	
Perfluorodecanesulfonic acid (PFDS)	ND		.8	.29	ng/L		7/20 18:39	9/20 00:09	
Perfluorooctanesulfonamide (FOSA)	ND		.8	.90	ng/L		7/20 18:39	9/20 00:09	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	.1	ng/L		7/20 18:39	9/20 00:09	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	.2	ng/L		7/20 18:39	9/20 00:09	
:2 FTS	ND		4.6	.3	ng/L		7/20 18:39	9/20 00:09	
8:2 FTS	ND		.8	.42	ng/L		7/20 18:39	9/20 00:09	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78		150	10/27/20 18:39	10/29/20 00:09	1
13C5 PFPeA	83		150	10/27/20 18:39	10/29/20 00:09	1
13C2 PFHxA	0		150	10/27/20 18:39	10/29/20 00:09	1
13C4 PFHpA	89		150	10/27/20 18:39	10/29/20 00:09	1
13C4 PFOA			150	10/27/20 18:39	10/29/20 00:09	1
13C5 PFNA	102		150	10/27/20 18:39	10/29/20 00:09	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: Equipment Blank 102120

Lab Sample ID: 460-221262-25

Date Collected: 10/21/20 14:30

Matrix: W ter

Date Received: 10/23/20 10:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	101		150	10/27/20 18:39	10/29/20 00:09	1
13C2 PFUnA	74		150	10/27/20 18:39	10/29/20 00:09	1
13C2 PFDoA	63		150	10/27/20 18:39	10/29/20 00:09	1
13C2 PFTeDA	73		150	10/27/20 18:39	10/29/20 00:09	1
13C3 PFBS	86		150	10/27/20 18:39	10/29/20 00:09	1
18O2 PFHxS	87		150	10/27/20 18:39	10/29/20 00:09	1
13C4 PFOS			150	10/27/20 18:39	10/29/20 00:09	1
13C8 FOSA	86		150	10/27/20 18:39	10/29/20 00:09	1
d3-NMeFOSAA	46		150	10/27/20 18:39	10/29/20 00:09	1
NEtFOSAA	64		150	10/27/20 18:39	10/29/20 00:09	1
M2-6:2 FTS	76		150	10/27/20 18:39	10/29/20 00:09	1
M2-8:2 FTS	0		150	10/27/20 18:39	10/29/20 00:09	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND			76.9	ug/L		4/20 20:00	17:05	
Antimony	ND		.0	3.7	ug/L		4/20 20:00	17:05	
Arsenic	ND		5.0	3.3	ug/L		4/20 20:00	17:05	
Barium	ND			3.2	ug/L		4/20 20:00	17:05	
Beryllium	ND		.0	.17	ug/L		4/20 20:00	17:05	
Cadmium	ND		4.0	.33	ug/L		4/20 20:00	17:05	
Calcium	ND		5000	52	ug/L		4/20 20:00	17:05	
Chromium	ND		.0	5.0	ug/L		4/20 20:00	17:05	
Cobalt	ND		50.0	.0	ug/L		4/20 20:00	17:05	
Copper	ND		5.0	.9	ug/L		4/20 20:00	17:05	
Iron	ND		50	80.8	ug/L		4/20 20:00	17:05	
Lead	ND		.0	.4	ug/L		4/20 20:00	17:05	
Magnesium	ND		5000	42	ug/L		4/20 20:00	17:05	
Manganese	ND		5.0	.76	ug/L		4/20 20:00	17:05	
Nickel	ND		40.0	4.1	ug/L		4/20 20:00	17:05	
Potassium	ND		5000	42	ug/L		4/20 20:00	17:05	
Selenium	ND		.0	5.9	ug/L		4/20 20:00	17:05	
Silver	ND		.0	5.8	ug/L		4/20 20:00	17:05	
Sodium	194	J	5000	83.8	ug/L		4/20 20:00	17:05	
Thallium	ND		.0	4.1	ug/L		4/20 20:00	17:05	
Vanadium	ND		50.0	7.2	ug/L		4/20 20:00	17:05	
Zinc	2.2	J	30.0	.2	ug/L		4/20 20:00	17:05	

Method: 7470A - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		.20	.091	ug/L		8/20 12:28	8/20 14:22	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND	H H3	.0	8.1	ug/L			3/20 16:30	

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: Field Blank 102120

Lab Sample ID: 460-221262-26

Date Collected: 10/21/20 16:30

Matrix: W ter

Date Received: 10/23/20 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.3	.0	ng/L		7/20 18:39	9/20 00:19	
Perfluoropentanoic acid (PFPeA)	ND		.7	.42	ng/L		7/20 18:39	9/20 00:19	
Perfluorohexanoic acid (PFHxA)	ND		.7	.49	ng/L		7/20 18:39	9/20 00:19	
Perfluoroheptanoic acid (PFHpA)	ND		.7	.21	ng/L		7/20 18:39	9/20 00:19	
Perfluorooctanoic acid (PFOA)	ND		.7	.72	ng/L		7/20 18:39	9/20 00:19	
Perfluorononanoic acid (PFNA)	ND		.7	.23	ng/L		7/20 18:39	9/20 00:19	
Perfluorodecanoic acid (PFDA)	ND		.7	.26	ng/L		7/20 18:39	9/20 00:19	
Perfluoroundecanoic acid (PFUnA)	ND		.7	.94	ng/L		7/20 18:39	9/20 00:19	
Perfluorododecanoic acid (PFDoA)	ND		.7	.47	ng/L		7/20 18:39	9/20 00:19	
Perfluorotridecanoic acid (PFTriA)	ND		.7	.1	ng/L		7/20 18:39	9/20 00:19	
Perfluorotetradecanoic acid (PFTeA)	ND		.7	.62	ng/L		7/20 18:39	9/20 00:19	
Perfluorobutanesulfonic acid (PFBS)	ND		.7	.17	ng/L		7/20 18:39	9/20 00:19	
Perfluorohexanesulfonic acid (PFHxS)	ND		.7	.48	ng/L		7/20 18:39	9/20 00:19	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.7	.16	ng/L		7/20 18:39	9/20 00:19	
Perfluorooctanesulfonic acid (PFOS)	ND		.7	.46	ng/L		7/20 18:39	9/20 00:19	
Perfluorodecanesulfonic acid (PFDS)	ND		.7	.27	ng/L		7/20 18:39	9/20 00:19	
Perfluorooctanesulfonamide (FOSA)	ND		.7	.83	ng/L		7/20 18:39	9/20 00:19	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	.0	ng/L		7/20 18:39	9/20 00:19	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	.1	ng/L		7/20 18:39	9/20 00:19	
:2 FTS	ND		4.3	.1	ng/L		7/20 18:39	9/20 00:19	
8:2 FTS	ND		.7	.39	ng/L		7/20 18:39	9/20 00:19	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	75		150	10/27/20 18:39	10/29/20 00:19	1
13C5 PFPeA	78		150	10/27/20 18:39	10/29/20 00:19	1
13C2 PFHxA	83		150	10/27/20 18:39	10/29/20 00:19	1
13C4 PFHpA	88		150	10/27/20 18:39	10/29/20 00:19	1
13C4 PFOA	0		150	10/27/20 18:39	10/29/20 00:19	1
13C5 PFNA			150	10/27/20 18:39	10/29/20 00:19	1
13C2 PFDA			150	10/27/20 18:39	10/29/20 00:19	1
13C2 PFUnA	89		150	10/27/20 18:39	10/29/20 00:19	1
13C2 PFDoA	100		150	10/27/20 18:39	10/29/20 00:19	1
13C2 PFTeDA	85		150	10/27/20 18:39	10/29/20 00:19	1
13C3 PFBS	79		150	10/27/20 18:39	10/29/20 00:19	1
18O2 PFHxS	80		150	10/27/20 18:39	10/29/20 00:19	1
13C4 PFOS	82		150	10/27/20 18:39	10/29/20 00:19	1
13C8 FOSA	77		150	10/27/20 18:39	10/29/20 00:19	1
d3-NMeFOSAA	75		150	10/27/20 18:39	10/29/20 00:19	1
NEtFOSAA	0		150	10/27/20 18:39	10/29/20 00:19	1
M2-6:2 FTS	66		150	10/27/20 18:39	10/29/20 00:19	1
M2-8:2 FTS	70		150	10/27/20 18:39	10/29/20 00:19	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S5-Soil-102120

Lab Sample ID: 460-221262-27

Date Collected: 10/21/20 16:48

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 69.7

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.71	B	.26	.037	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluoropentanoic acid (PFPeA)	0.31		.26	.10	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorohexanoic acid (PFHxA)	0.23	J	.26	.055	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluoroheptanoic acid (PFHpA)	0.29		.26	.038	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorooctanoic acid (PFOA)	0.93		.26	.1	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorononanoic acid (PFNA)	0.49		.26	.047	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorodecanoic acid (PFDA)	0.35		.26	.029	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluoroundecanoic acid (PFUnA)	0.28		.26	.047	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorododecanoic acid (PFDoA)	0.16	J	.26	.088	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorotridecanoic acid (PFTriA)	0.10	J	.26	.067	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorotetradecanoic acid (PFTeA)	0.093	J	.26	.071	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorobutanesulfonic acid (PFBS)	0.075	J	.26	.033	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorohexanesulfonic acid (PFHxS)	ND		.26	.041	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.26	.046	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorooctanesulfonic acid (PFOS)	1.7	B *	.66	.26	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorodecanesulfonic acid (PFDS)	ND	*	.26	.051	ug/Kg	✱	8/20 07:03	30/20 22:34	
Perfluorooctanesulfonamide (FOSA)	ND		.26	.1	ug/Kg	✱	8/20 07:03	30/20 22:34	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.6	.51	ug/Kg	✱	8/20 07:03	30/20 22:34	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.6	.49	ug/Kg	✱	8/20 07:03	30/20 22:34	
:2 FTS	ND		.6	.20	ug/Kg	✱	8/20 07:03	30/20 22:34	
8:2 FTS	ND		.6	.33	ug/Kg	✱	8/20 07:03	30/20 22:34	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78		150	10/28/20 07:03	10/30/20 22:34	1
13C5 PFPeA	66		150	10/28/20 07:03	10/30/20 22:34	1
13C2 PFHxA	87		150	10/28/20 07:03	10/30/20 22:34	1
13C4 PFHpA	0		150	10/28/20 07:03	10/30/20 22:34	1
13C4 PFOA	88		150	10/28/20 07:03	10/30/20 22:34	1
13C5 PFNA	78		150	10/28/20 07:03	10/30/20 22:34	1
13C2 PFDA			150	10/28/20 07:03	10/30/20 22:34	1
13C2 PFUnA	87		150	10/28/20 07:03	10/30/20 22:34	1
13C2 PFDoA	71		150	10/28/20 07:03	10/30/20 22:34	1
13C2 PFTeDA	64		150	10/28/20 07:03	10/30/20 22:34	1
13C3 PFBS	81		150	10/28/20 07:03	10/30/20 22:34	1
18O2 PFHxS	89		150	10/28/20 07:03	10/30/20 22:34	1
13C4 PFOS	85		150	10/28/20 07:03	10/30/20 22:34	1
13C8 FOSA	77		150	10/28/20 07:03	10/30/20 22:34	1
d3-NMeFOSAA	87		150	10/28/20 07:03	10/30/20 22:34	1
NEtFOSAA	86		150	10/28/20 07:03	10/30/20 22:34	1
M2-6:2 FTS	133		150	10/28/20 07:03	10/30/20 22:34	1
M2-8:2 FTS	127		150	10/28/20 07:03	10/30/20 22:34	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S5-Soil-102120

Lab Sample ID: 460-221262-27

Date Collected: 10/21/20 16:48

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 69.7

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1.4	H B	.68	.27	ug/Kg	✱	9/20 15:20	1 :43	
Perfluorodecanesulfonic acid (PFDS)	ND	H	.27	.053	ug/Kg	✱	9/20 15:20	1 :43	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	86		150				11/09/20 15:20	11/11/20 11:43	1

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9780		45.5	.4	mg/Kg	✱	9/20 15:00	30/20 13:22	
Antimony	ND		4.6	.3	mg/Kg	✱	9/20 15:00	30/20 13:22	
Arsenic	6.5		3.4	.70	mg/Kg	✱	9/20 15:00	30/20 13:22	
Barium	80.2		45.5	4.4	mg/Kg	✱	9/20 15:00	30/20 13:22	
Beryllium	0.52		.46	.073	mg/Kg	✱	9/20 15:00	30/20 13:22	
Cadmium	0.30	J	.91	.079	mg/Kg	✱	9/20 15:00	30/20 13:22	
Calcium	4120		40	84.1	mg/Kg	✱	9/20 15:00	30/20 13:22	
Chromium	17.5		.3	.6	mg/Kg	✱	9/20 15:00	30/20 13:22	
Cobalt	8.7	J	.4	.63	mg/Kg	✱	9/20 15:00	30/20 13:22	
Copper	32.5		5.7	.4	mg/Kg	✱	9/20 15:00	30/20 13:22	
Iron	20200		34.1	3.4	mg/Kg	✱	9/20 15:00	30/20 13:22	
Lea	70.0		.3	.37	mg/Kg	✱	9/20 15:00	30/20 13:22	
Magnesium	2970		40	77.1	mg/Kg	✱	9/20 15:00	30/20 13:22	
Manganese	425		3.4	.26	mg/Kg	✱	9/20 15:00	30/20 13:22	
Nickel	18.7		9.1	.60	mg/Kg	✱	9/20 15:00	30/20 13:22	
Potassium	1410		40	9.9	mg/Kg	✱	9/20 15:00	30/20 13:22	
Selenium	ND		4.6	.77	mg/Kg	✱	9/20 15:00	30/20 13:22	
Silver	ND		.3	.3	mg/Kg	✱	9/20 15:00	30/20 13:22	
Sodium	ND		40	99.0	mg/Kg	✱	9/20 15:00	30/20 13:22	
Thallium	0.80	J	4.6	.71	mg/Kg	✱	9/20 15:00	30/20 13:22	
V nadium	26.2		.4	.1	mg/Kg	✱	9/20 15:00	30/20 13:22	
Zinc	150		.8	.2	mg/Kg	✱	9/20 15:00	30/20 13:22	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		.023	.0055	mg/Kg	✱	8/20 03:25	8/20 07:47	

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.9	.50	mg/Kg	✱	9/20 13:45	31/20 1 :52	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.3		.0	.0	%			7/20 13:49	
Percent Solids	69.7		.0	.0	%			7/20 13:49	

Client Sample ID: S10-Soil-102120

Lab Sample ID: 460-221262-28

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.15	J B	.31	.043	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluoropentanoic acid (PFPeA)	ND		.31	.12	ug/Kg	✱	8/20 07:03	30/20 22:43	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S10-Soil-102120

Lab Sample ID: 460-221262-28

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.4

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.11	J	.31	.065	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluoroheptanoic acid (PFHpA)	0.071	J	.31	.045	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorooctanoic acid (PFOA)	0.19	J	.31	.13	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorononanoic acid (PFNA)	0.13	J	.31	.056	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorodecanoic acid (PFDA)	0.20	J	.31	.034	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluoroundecanoic acid (PFUnA)	0.22	J	.31	.056	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorododecanoic acid (PFDoA)	ND		.31	.10	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorotridecanoic acid (PFTriA)	ND		.31	.079	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorotetradecanoic acid (PFTeA)	ND		.31	.084	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorobutanesulfonic acid (PFBS)	ND		.31	.039	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorohexanesulfonic acid (PFHxS)	ND		.31	.048	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.31	.054	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorooctanesulfonic acid (PFOS)	1.4	B *	.78	.31	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorodecanesulfonic acid (PFDS)	ND	*	.31	.061	ug/Kg	✱	8/20 07:03	30/20 22:43	
Perfluorooctanesulfonamide (FOSA)	ND		.31	.13	ug/Kg	✱	8/20 07:03	30/20 22:43	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.1	.61	ug/Kg	✱	8/20 07:03	30/20 22:43	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.1	.57	ug/Kg	✱	8/20 07:03	30/20 22:43	
:2 FTS	ND		3.1	.23	ug/Kg	✱	8/20 07:03	30/20 22:43	
8:2 FTS	ND		3.1	.39	ug/Kg	✱	8/20 07:03	30/20 22:43	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	84		150	10/28/20 07:03	10/30/20 22:43	1
13C5 PFPeA	69		150	10/28/20 07:03	10/30/20 22:43	1
13C2 PFHxA	1		150	10/28/20 07:03	10/30/20 22:43	1
13C4 PFHpA	1		150	10/28/20 07:03	10/30/20 22:43	1
13C4 PFOA	87		150	10/28/20 07:03	10/30/20 22:43	1
13C5 PFNA	89		150	10/28/20 07:03	10/30/20 22:43	1
13C2 PFDA			150	10/28/20 07:03	10/30/20 22:43	1
13C2 PFUnA			150	10/28/20 07:03	10/30/20 22:43	1
13C2 PFDoA	76		150	10/28/20 07:03	10/30/20 22:43	1
13C2 PFTeDA	63		150	10/28/20 07:03	10/30/20 22:43	1
13C3 PFBS	82		150	10/28/20 07:03	10/30/20 22:43	1
18O2 PFHxS	88		150	10/28/20 07:03	10/30/20 22:43	1
13C4 PFOS	86		150	10/28/20 07:03	10/30/20 22:43	1
13C8 FOSA	76		150	10/28/20 07:03	10/30/20 22:43	1
d3-NMeFOSAA			150	10/28/20 07:03	10/30/20 22:43	1
NEtFOSAA	7		150	10/28/20 07:03	10/30/20 22:43	1
M2-6:2 FTS	6		150	10/28/20 07:03	10/30/20 22:43	1
M2-8:2 FTS	102		150	10/28/20 07:03	10/30/20 22:43	1

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1.2	H B	.75	.30	ug/Kg	☼	9/20 15:20	1 :53	
Perfluorodecanesulfonic acid (PFDS)	ND	H	.30	.058	ug/Kg	☼	9/20 15:20	1 :53	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	89		150				11/09/20 15:20	11/11/20 11:53	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S10-Soil-102120

Lab Sample ID: 460-221262-28

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.4

Method: 6010D - Metals (ICP)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10400		.6	8.7	mg/Kg	✱	31/20 16:58	3/20 19:51	
Antimony	ND		.2	.8	mg/Kg	✱	31/20 16:58	3/20 19:51	
Arsenic	7.4		4.6	.95	mg/Kg	✱	31/20 16:58	3/20 19:51	
Barium	95.3		.6	5.9	mg/Kg	✱	31/20 16:58	3/20 19:51	
Beryllium	0.14	J	.62	.099	mg/Kg	✱	31/20 16:58	3/20 19:51	
Cadmium	0.34	J	.2	.1	mg/Kg	✱	31/20 16:58	3/20 19:51	
Calcium	2840		540	4	mg/Kg	✱	31/20 16:58	3/20 19:51	
Chromium	26.2		3.1	.2	mg/Kg	✱	31/20 16:58	3/20 19:51	
Cobalt	9.8	J	5.4	.85	mg/Kg	✱	31/20 16:58	3/20 19:51	
Copper	90.7		7.7	.9	mg/Kg	✱	31/20 16:58	3/20 19:51	
Iron	23900		46.2	31.7	mg/Kg	✱	31/20 16:58	3/20 19:51	
Lea	236		3.1	.50	mg/Kg	✱	31/20 16:58	3/20 19:51	
Magnesium	3790		540	4	mg/Kg	✱	31/20 16:58	3/20 19:51	
Manganese	547		4.6	.35	mg/Kg	✱	31/20 16:58	3/20 19:51	
Nickel	25.6		.3	.81	mg/Kg	✱	31/20 16:58	3/20 19:51	
Potassium	1620		540	94.5	mg/Kg	✱	31/20 16:58	3/20 19:51	
Selenium	ND		.2	.0	mg/Kg	✱	31/20 16:58	3/20 19:51	
Silver	ND		3.1	.7	mg/Kg	✱	31/20 16:58	3/20 19:51	
Sodium	ND		540	34	mg/Kg	✱	31/20 16:58	3/20 19:51	
Thallium	ND		.2	.95	mg/Kg	✱	31/20 16:58	3/20 19:51	
V nadium	25.6		5.4	.4	mg/Kg	✱	31/20 16:58	3/20 19:51	
Zinc	211		9.2	.7	mg/Kg	✱	31/20 16:58	3/20 19:51	

Method: 7471B - Mercury (CVAA)

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		.072	.017	mg/Kg	✱	02:55	09:34	3

General Chemistry

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		3.2	.56	mg/Kg	✱	3/20 07:40	3/20 15:16	
Analyte	esult	Qualifier	L	L	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	37.6		.1	.1	%			8/20 13:1	
Percent Solids	62.4		.1	.1	%			8/20 13:1	

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
460-221262-1	PC1-SOIL-102120	49	58	80	80	83	83	82	86
460-221262-3	PC2-SOIL-102120	58	3	84	84	89	86	84	86
460-221262-4	S15-SOIL-102120	52	57	72	74	81	77	78	83
460-221262-5	S14-SOIL-102120	52	58	77	76	80	78	75	9
460-221262-6	S13-SOIL-102120	55		86	84	87	84	83	84
460-221262-6 MS	S13-SOIL-102120	58	5	88	88	91	88	80	85
460-221262-6 MSD	S13-SOIL-102120	56	4	85	85	91	87	85	94
460-221262-7	S16-SOIL-102120	49	53	74	75	81	78	75	9
460-221262-8	S2-SOIL-102120	54		80	82	85	84	84	87
460-221262-9	DUP1-SOIL-102120	77	8	80	81	80	78	80	90
460-221262-9 MS	DUP1-SOIL-102120	74		82	81	87	77	90	80
460-221262-9 MSD	DUP1-SOIL-102120	73		79	79	88	83	82	76
460-221262-10	S3-SOIL-102120		8	81	84	87	84	88	84
460-221262-1	S4-SOIL-102120	55		73	76	74	76	78	76
460-221262-12	S1-SOIL-102120	58	50		59	55	59	58	56
460-221262-12 MS	S1 SOIL-102120		52	3		59			59
460-221262-12 MSD	S1 SOIL-102120	47	42	51	49	50	48	51	43
460-221262-13	S12-SOIL-102120		52	3	3	3			58
460-221262-14	DUP2-SOIL-102120	3	55	7	7	4	5	5	
460-221262-15	S1-SOIL-102120	57	50	3	3	4	5	7	
460-221262-17	S6A-SOIL-102120	50	41	58	58	55	53	57	51
460-221262-18	S6B-SOIL-102120	71	59	79	78	76	76	81	77
460-221262-19	S7A-SOIL-102120	5	56	9	8	8	5	70	59
460-221262-20	S7B-SOIL-102120	51	43	59	58	59		58	
460-221262-21	S8A-SOIL-102120	51	42		3	63		71	
460-221262-22	S8B-SOIL-102120	53	44	59		59	57		56
460-221262-23	S9A-SOIL-102120	80	71	89	90	93	84	87	80
460-221262-23 - RE	S9A-SOIL-102120								
460-221262-24	S9B-SOIL-102120	78	5	88	88	86	89	82	74
460-221262-24 - RE	S9B-SOIL-102120								
460-221262-24 MS	S9B-SOIL-102120	78	5	85	85	82	83	86	85
460-221262-24 MS - RE	S9B-SOIL-102120								
460-221262-24MSD	S9B-SOIL-102120	83	70	89	92	89	95	95	80
460-221262-24MSD - RE	S9B-SOIL-102120								
460-221262-27	S5-Soil-102120	78		87	90	88	78	95	87
460-221262-27 - RE	S5-Soil-102120								
460-221262-28	S10-Soil-102120	84	9	91	91	87	89	92	95
460-221262-28 - RE	S10-Soil-102120								
LCS 320-426094/2-A	Lab Control Sample	93	88	91	98	88	82	85	85
LCS 320-426095/2-A	Lab Control Sample	90	90	92	94	90	85	71	
LCS 320-426801/2-A	Lab Control Sample	83	83	87	87	91	90	85	78
LCS 320-427709/2-A	Lab Control Sample	78	84	90	92	94	90	94	89
LCS 320-429933/2-A	Lab Control Sample	74	79	89	95	92	87	88	90
MB 320-426094/1-A	Method Blank	82	77	80	88	80	79	73	77
MB 320-426095/1-A	Method Blank	93	94	91	96	93	86	75	4
MB 320-426801/1-A	Method Blank	83	82	84	86	95	87	89	91
MB 320-427709/1-A	Method Blank	74	78	84	86	94	90	88	87
MB 320-429933/1-A	Method Blank	76	82	88	99	93	89	89	88

Eurofins TestAmerica, Edison

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 460-221262-1

Project/Site: Norlite - Cohoes #401041

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFO (25-150)	d5NEFO (25-150)
460-221262-1	PC1-SOIL-102120	83	74	74	82	81	5	72	74
460-221262-3	PC2-SOIL-102120	87	91	73	85	83	78	70	80
460-221262-4	S15-SOIL-102120	76	80	5	71	71	75	70	77
460-221262-5	S14-SOIL-102120	4			9	7	57	56	59
460-221262-6	S13-SOIL-102120	86	86	72	80	84	72	9	70
460-221262-6 MS	S13-SOIL-102120	90	96	76	87	87	75	70	72
460-221262-6 MSD	S13-SOIL-102120	92	94	75	85	86	75	9	74
460-221262-7	S16-SOIL-102120			59		5	58	59	
460-221262-8	S2-SOIL-102120	78		70	79	78	77	74	81
460-221262-9	DUP1-SOIL-102120	80	5	76	80	74	78	86	90
460-221262-9 MS	DUP1-SOIL-102120	5	52	71	82	76	78	83	80
460-221262-9 MSD	DUP1-SOIL-102120	5	44	70	80	74	77	83	84
460-221262-10	S3-SOIL-102120	87	95	4	9	70	82	84	9
460-221262-1	S4-SOIL-102120	79	82		4		75	70	71
460-221262-12	S1-SOIL-102120		46	58	52	50	45	68	67
460-221262-12 MS	S1 SOIL-102120	56	43	58	57	54	50	9	
460-221262-12 MSD	S1 SOIL-102120	44	4 *5	45	49	43	44	52	48
460-221262-13	S12-SOIL-102120	54	46			56	49		
460-221262-14	DUP2-SOIL-102120	5	49	57	58	53	54	74	8
460-221262-15	S1-SOIL-102120		59	3		5	57	50	44
460-221262-17	S6A-SOIL-102120	46	32	55		56	45	54	50
460-221262-18	S6B-SOIL-102120	7	51	76	78	76		85	74
460-221262-19	S7A-SOIL-102120	56	35		7		57	7	9
460-221262-20	S7B-SOIL-102120	48	9	56			43		57
460-221262-21	S8A-SOIL-102120	54	40		70	5	50	59	56
460-221262-22	S8B-SOIL-102120	54	38	57		57	48	58	49
460-221262-23	S9A-SOIL-102120	79	74	88	87	85	79	93	94
460-221262-23 - RE	S9A-SOIL-102120					83			
460-221262-24	S9B-SOIL-102120		4	78	84	84	74	88	90
460-221262-24 - RE	S9B-SOIL-102120					83			
460-221262-24 MS	S9B-SOIL-102120	79		74	82	78	77	80	80
460-221262-24 MS - RE	S9B-SOIL-102120					81			
460-221262-24MSD	S9B-SOIL-102120	78	5	82	95	84	76	90	85
460-221262-24MSD - RE	S9B-SOIL-102120					79			
460-221262-27	S5-Soil-102120	71	4	81	89	85	77	87	86
460-221262-27 - RE	S5-Soil-102120					86			
460-221262-28	S10-Soil-102120	76	3	82	88	86	76	59	57
460-221262-28 - RE	S10-Soil-102120					89			
LCS 320-426094/2-A	Lab Control Sample	87	91	98	99	92	77	84	86
LCS 320-426095/2-A	Lab Control Sample	46	46	97	97	81		8	3 *5
LCS 320-426801/2-A	Lab Control Sample	86	92	93	96	91	87	83	86
LCS 320-427709/2-A	Lab Control Sample	90	93	88	94	90	85	78	73
LCS 320-429933/2-A	Lab Control Sample	86	83	82	87	83	83	73	75
MB 320-426094/1-A	Method Blank	79	76	88	89	79	7	77	78
MB 320-426095/1-A	Method Blank	43	3 *5	92	93	81	53	31	8
MB 320-426801/1-A	Method Blank	87	87	91	93	92	92	86	90
MB 320-427709/1-A	Method Blank	86	93	84	90	88	80	76	70
MB 320-429933/1-A	Method Blank	91	88	86	90	88	85	8	75

Eurofins TestAmerica, Edison

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)	
		M262FTS (25-150)	M282FTS (25-150)
460-221262-1	PC1-SOIL-102120	88 *5	9 *5
460-221262-3	PC2-SOIL-102120	59 *5	86 *5
460-221262-4	S15-SOIL-102120	44	78 *5
460-221262-5	S14-SOIL-102120	9	47
460-221262-6	S13-SOIL-102120	45	72 *5
460-221262-6 MS	S13-SOIL-102120	37	7 *5
460-221262-6 MSD	S13-SOIL-102120	47	4 *5
460-221262-7	S16-SOIL-102120	7	50
460-221262-8	S2-SOIL-102120	53 *5	91 *5
460-221262-9	DUP1-SOIL-102120	3	
460-221262-9 MS	DUP1-SOIL-102120		
460-221262-9 MSD	DUP1-SOIL-102120	3	5
460-221262-10	S3-SOIL-102120		8
460-221262-1	S4-SOIL-102120		30
460-221262-12	S1 -SOIL-102120	7	3
460-221262-12 MS	S1 SOIL-102120	70	76
460-221262-12 MSD	S1 SOIL-102120	54	55
460-221262-13	S12-SOIL-102120	73	71
460-221262-14	DUP2-SOIL-102120	70	8
460-221262-15	S1-SOIL-102120	8	73
460-221262-17	S6A-SOIL-102120	71	7
460-221262-18	S6B-SOIL-102120	99	98
460-221262-19	S7A-SOIL-102120	85	86
460-221262-20	S7B-SOIL-102120	79	85
460-221262-21	S8A-SOIL-102120	89	87
460-221262-22	S8B-SOIL-102120	81	81
460-221262-23	S9A-SOIL-102120	7	33
460-221262-23 - RE	S9A-SOIL-102120		
460-221262-24	S9B-SOIL-102120		4
460-221262-24 - RE	S9B-SOIL-102120		
460-221262-24 MS	S9B-SOIL-102120	8	5
460-221262-24 MS - RE	S9B-SOIL-102120		
460-221262-24MSD	S9B-SOIL-102120		7
460-221262-24MSD - RE	S9B-SOIL-102120		
460-221262-27	S5-Soil-102120	33	7
460-221262-27 - RE	S5-Soil-102120		
460-221262-28	S10-Soil-102120	96	
460-221262-28 - RE	S10-Soil-102120		
LCS 320-426094/2-A	Lab Control Sample	99	88
LCS 320-426095/2-A	Lab Control Sample		41
LCS 320-426801/2-A	Lab Control Sample	98	83
LCS 320-427709/2-A	Lab Control Sample	90	85
LCS 320-429933/2-A	Lab Control Sample	86	77
MB 320-426094/1-A	Method Blank	82	87
MB 320-426095/1-A	Method Blank	58	40
MB 320-426801/1-A	Method Blank		92
MB 320-427709/1-A	Method Blank	86	77
MB 320-429933/1-A	Method Blank	84	81

rrrogate Legend

Eurofins TestAmerica, Edison

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFO = d3-NMeFOSAA
d5NEFO = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
460-221262-2	TB1-102120	77	82	88	88	96	94	90	89
460-221262-16	TB2-102120	8	71	75	76	83	81	80	87
460-221262-25	Equipment Blank 102120	78	83	90	89	95			74
460-221262-26	Field Blank 102120	75	78	83	88	90	92	92	89
LCS 320-426004/2-A	Lab Control Sample	77	80	86	87	88	97	95	89
MB 320-426004/1-A	Method Blank	7	70	73	72	78	81	76	81

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFO (25-150)	d5NEFO (25-150)
460-221262-2	TB1-102120	95	91	83	86	86	81	76	94
460-221262-16	TB2-102120	83	70	75	77	78	70	70	81
460-221262-25	Equipment Blank 102120	3	73	86	87	92	86	46	4
460-221262-26	Field Blank 102120		85	79	80	82	77	75	90
LCS 320-426004/2-A	Lab Control Sample	97	79	82	87	88	81	78	90
MB 320-426004/1-A	Method Blank	85	73	74	75	78	73	71	80

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
460-221262-2	TB1-102120	70	74
460-221262-16	TB2-102120	3	
460-221262-25	Equipment Blank 102120	76	90
460-221262-26	Field Blank 102120		70
LCS 320-426004/2-A	Lab Control Sample	72	75
MB 320-426004/1-A	Method Blank	5	

rrrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA

Eurofins TestAmerica, Edison

Isotope Dilution Summary

Client: New York State D.E.C.

Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-426004/1-A

Matrix: Water

Analysis Batch: 426308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 426004

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0	.4	ng/L		7/20 18:22	8/20 19:46	
Perfluoropentanoic acid (PFPeA)	ND		.0	.49	ng/L		7/20 18:22	8/20 19:46	
Perfluorohexanoic acid (PFHxA)	ND		.0	.58	ng/L		7/20 18:22	8/20 19:46	
Perfluoroheptanoic acid (PFHpA)	ND		.0	.25	ng/L		7/20 18:22	8/20 19:46	
Perfluorooctanoic acid (PFOA)	ND		.0	.85	ng/L		7/20 18:22	8/20 19:46	
Perfluorononanoic acid (PFNA)	ND		.0	.27	ng/L		7/20 18:22	8/20 19:46	
Perfluorodecanoic acid (PFDA)	ND		.0	.31	ng/L		7/20 18:22	8/20 19:46	
Perfluoroundecanoic acid (PFUnA)	ND		.0	.1	ng/L		7/20 18:22	8/20 19:46	
Perfluorododecanoic acid (PFDoA)	ND		.0	.55	ng/L		7/20 18:22	8/20 19:46	
Perfluorotridecanoic acid (PFTriA)	ND		.0	.3	ng/L		7/20 18:22	8/20 19:46	
Perfluorotetradecanoic acid (PFTeA)	ND		.0	.73	ng/L		7/20 18:22	8/20 19:46	
Perfluorobutanesulfonic acid (PFBS)	ND		.0	.20	ng/L		7/20 18:22	8/20 19:46	
Perfluorohexanesulfonic acid (PFHxS)	ND		.0	.57	ng/L		7/20 18:22	8/20 19:46	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.0	.19	ng/L		7/20 18:22	8/20 19:46	
Perfluorooctanesulfonic acid (PFOS)	ND		.0	.54	ng/L		7/20 18:22	8/20 19:46	
Perfluorodecanesulfonic acid (PFDS)	ND		.0	.32	ng/L		7/20 18:22	8/20 19:46	
Perfluorooctanesulfonamide (FOSA)	ND		.0	.98	ng/L		7/20 18:22	8/20 19:46	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	.2	ng/L		7/20 18:22	8/20 19:46	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	.3	ng/L		7/20 18:22	8/20 19:46	
:2 FTS	ND		5.0	.5	ng/L		7/20 18:22	8/20 19:46	
8:2 FTS	ND		.0	.46	ng/L		7/20 18:22	8/20 19:46	

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA			- 150	10/27/20 18:22	10/28/20 19:46	1
13C5 PFPeA	0		- 150	10/27/20 18:22	10/28/20 19:46	1
13C2 PFHxA	3		- 150	10/27/20 18:22	10/28/20 19:46	1
13C4 PFHpA			- 150	10/27/20 18:22	10/28/20 19:46	1
13C4 PFOA	8		- 150	10/27/20 18:22	10/28/20 19:46	1
13C5 PFNA	81		- 150	10/27/20 18:22	10/28/20 19:46	1
13C2 PFDA			- 150	10/27/20 18:22	10/28/20 19:46	1
13C2 PFUnA	81		- 150	10/27/20 18:22	10/28/20 19:46	1
13C2 PFDoA	85		- 150	10/27/20 18:22	10/28/20 19:46	1
13C2 PFTeDA	3		- 150	10/27/20 18:22	10/28/20 19:46	1
13C3 PFBS	4		- 150	10/27/20 18:22	10/28/20 19:46	1
18O2 PFHxS			- 150	10/27/20 18:22	10/28/20 19:46	1
13C4 PFOS	8		- 150	10/27/20 18:22	10/28/20 19:46	1
13C8 FOSA	3		- 150	10/27/20 18:22	10/28/20 19:46	1
d3-NMeFOSAA	1		- 150	10/27/20 18:22	10/28/20 19:46	1
-NEtFOSAA	80		- 150	10/27/20 18:22	10/28/20 19:46	1
M2-6:2 FTS			- 150	10/27/20 18:22	10/28/20 19:46	1
M2-8:2 FTS			- 150	10/27/20 18:22	10/28/20 19:46	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: LCS 320-426004/2-A

Matrix: Water

Analysis Batch: 426308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 426004

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Perfluorobutanoic acid (PFBA)	40.0	41.0		ng/L		3	76	36
Perfluoropentanoic acid (PFPeA)	40.0	38.4		ng/L		96	71	31
Perfluorohexanoic acid (PFHxA)	40.0	39.5		ng/L		99	73	33
Perfluoroheptanoic acid (PFHpA)	40.0	38.0		ng/L		95	72	32
Perfluorooctanoic acid (PFOA)	40.0	40.4		ng/L			70	30
Perfluorononanoic acid (PFNA)	40.0	37.3		ng/L		93	75	35
Perfluorodecanoic acid (PFDA)	40.0	39.5		ng/L		99	76	36
Perfluoroundecanoic acid (PFUnA)	40.0	45.1		ng/L		3	8	8
Perfluorododecanoic acid (PFDoA)	40.0	34.9		ng/L		87	71	31
Perfluorotridecanoic acid (PFTriA)	40.0	38.2		ng/L		96	71	31
Perfluorotetradecanoic acid (PFTeA)	40.0	40.3		ng/L			70	30
Perfluorobutanesulfonic acid (PFBS)	35.4	36.3		ng/L		3	7	7
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.4		ng/L		94	59	9
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.4		ng/L		4	76	36
Perfluorooctanesulfonic acid (PFOS)	37.1	35.2		ng/L		95	70	30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.8		ng/L		93	71	31
Perfluorooctanesulfonamide (FOSA)	40.0	42.0		ng/L		5	73	33
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.8		ng/L		7	76	36
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.9		ng/L			76	36
:2 FTS	37.9	37.4		ng/L		99	59	75
8:2 FTS	38.3	40.6		ng/L			75	35

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA			- 150
13C5 PFPeA	80		- 150
13C2 PFHxA	86		- 150
13C4 PFHpA	87		- 150
13C4 PFOA	88		- 150
13C5 PFNA	97		- 150
13C2 PFDA	95		- 150
13C2 PFUnA	89		- 150
13C2 PFDoA	97		- 150
13C2 PFTeDA	9		- 150
13C3 PFBS	82		- 150
18O2 PFHxS	87		- 150
13C4 PFOS	88		- 150
13C8 FOSA	81		- 150
3-NMeFOSAA	8		- 150
-NEtFOSAA	90		- 150

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: LCS 320-426004/2-A

Matrix: Water

Analysis Batch: 426308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 426004

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS			- 150
M2-8:2 FTS			- 150

Lab Sample ID: MB 320-426094/1-A

Matrix: Solid

Analysis Batch: 427508

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 426094

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.20	.028	ug/Kg		8/20 06:59	23:31	
Perfluoropentanoic acid (PFPeA)	ND		.20	.077	ug/Kg		8/20 06:59	23:31	
Perfluorohexanoic acid (PFHxA)	ND		.20	.042	ug/Kg		8/20 06:59	23:31	
Perfluoroheptanoic acid (PFHpA)	ND		.20	.029	ug/Kg		8/20 06:59	23:31	
Perfluorooctanoic acid (PFOA)	ND		.20	.086	ug/Kg		8/20 06:59	23:31	
Perfluorononanoic acid (PFNA)	ND		.20	.036	ug/Kg		8/20 06:59	23:31	
Perfluorodecanoic acid (PFDA)	ND		.20	.022	ug/Kg		8/20 06:59	23:31	
Perfluoroundecanoic acid (PFUnA)	ND		.20	.036	ug/Kg		8/20 06:59	23:31	
Perfluorododecanoic acid (PFDoA)	ND		.20	.067	ug/Kg		8/20 06:59	23:31	
Perfluorotridecanoic acid (PFTriA)	ND		.20	.051	ug/Kg		8/20 06:59	23:31	
Perfluorotetradecanoic acid (PFTeA)	ND		.20	.054	ug/Kg		8/20 06:59	23:31	
Perfluorobutanesulfonic acid (PFBS)	ND		.20	.025	ug/Kg		8/20 06:59	23:31	
Perfluorohexanesulfonic acid (PFHxS)	ND		.20	.031	ug/Kg		8/20 06:59	23:31	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.20	.035	ug/Kg		8/20 06:59	23:31	
Perfluorooctanesulfonic acid (PFOS)	.327	J	.50	.20	ug/Kg		8/20 06:59	23:31	
Perfluorodecanesulfonic acid (PFDS)	ND		.20	.039	ug/Kg		8/20 06:59	23:31	
Perfluorooctanesulfonamide (FOSA)	ND		.20	.082	ug/Kg		8/20 06:59	23:31	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.0	.39	ug/Kg		8/20 06:59	23:31	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.0	.37	ug/Kg		8/20 06:59	23:31	
:2 FTS	ND		.0	.15	ug/Kg		8/20 06:59	23:31	
8:2 FTS	ND		.0	.25	ug/Kg		8/20 06:59	23:31	

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA	82		- 150	10/28/20 06:59	11/01/20 23:31	1
13C5 PFPeA			- 150	10/28/20 06:59	11/01/20 23:31	1
13C2 PFHxA	80		- 150	10/28/20 06:59	11/01/20 23:31	1
13C4 PFHpA	88		- 150	10/28/20 06:59	11/01/20 23:31	1
13C4 PFOA	80		- 150	10/28/20 06:59	11/01/20 23:31	1
13C5 PFNA	9		- 150	10/28/20 06:59	11/01/20 23:31	1
13C2 PFDA	3		- 150	10/28/20 06:59	11/01/20 23:31	1
13C2 PFUnA			- 150	10/28/20 06:59	11/01/20 23:31	1
13C2 PFDoA	9		- 150	10/28/20 06:59	11/01/20 23:31	1
13C2 PFTeDA			- 150	10/28/20 06:59	11/01/20 23:31	1
13C3 PFBS	88		- 150	10/28/20 06:59	11/01/20 23:31	1
18O2 PFHxS	89		- 150	10/28/20 06:59	11/01/20 23:31	1
13C4 PFOS	9		- 150	10/28/20 06:59	11/01/20 23:31	1
13C8 FOSA			- 150	10/28/20 06:59	11/01/20 23:31	1
d3-NMeFOSAA			- 150	10/28/20 06:59	11/01/20 23:31	1
-NEtFOSAA	8		- 150	10/28/20 06:59	11/01/20 23:31	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: MB 320-426094/1-A

Matrix: Solid

Analysis Batch: 427508

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 426094

Isotope Dilution	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Fac
M2-6:2 FTS	82		- 150	10/28/20 06:59	11/01/20 23:31	1
M2-8:2 FTS	87		- 150	10/28/20 06:59	11/01/20 23:31	1

Lab Sample ID: LCS 320-426094/2-A

Matrix: Solid

Analysis Batch: 427508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 426094

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	.00	.97		ug/Kg		99	76 36
Perfluoropentanoic acid (PFPeA)	.00	.93		ug/Kg		97	9 9
Perfluorohexanoic acid (PFHxA)	.00	.13		ug/Kg			71 31
Perfluoroheptanoic acid (PFHpA)	.00	.16		ug/Kg		8	71 31
Perfluorooctanoic acid (PFOA)	.00	.08		ug/Kg		4	72 32
Perfluorononanoic acid (PFNA)	.00	.43		ug/Kg			73 33
Perfluorodecanoic acid (PFDA)	.00	.02		ug/Kg			72 32
Perfluoroundecanoic acid (PFUnA)	.00	.27		ug/Kg		4	
Perfluorododecanoic acid (PFDoA)	.00	.1		ug/Kg		5	71 31
Perfluorotridecanoic acid (PFTriA)	.00	.08		ug/Kg		4	71 31
Perfluorotetradecanoic acid (PFTeA)	.00	.12		ug/Kg			7 7
Perfluorobutanesulfonic acid (PFBS)	.77	.76		ug/Kg			9 9
Perfluorohexanesulfonic acid (PFHxS)	.82	.79		ug/Kg		98	
Perfluoroheptanesulfonic Acid (PFHpS)	.90	.08		ug/Kg		9	76 36
Perfluorooctanesulfonic acid (PFOS)	.86	.04		ug/Kg			8 41
Perfluorodecanesulfonic acid (PFDS)	.93	.1		ug/Kg		9	71 31
Perfluorooctanesulfonamide (FOSA)	.00	.12		ug/Kg			77 37
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	.00	.00		ug/Kg			72 32
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	.00	.04		ug/Kg			72 132
:2 FTS	.90	.74	J	ug/Kg		92	73 39
8:2 FTS	.92	.98	J	ug/Kg		3	75 35

Isotope Dilution	LCS LCS %Recovery	Qualifier	Limits
13C4 PFBA	93		- 150
13C5 PFPeA	88		- 150
13C2 PFHxA	91		- 150
13C4 PFHpA	98		- 150
13C4 PFOA	88		- 150
13C5 PFNA	82		- 150
13C2 PFDA	85		- 150
13C2 PFUnA	85		- 150
13C2 PFDoA	87		- 150

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: LCS 320-426094/2-A

Matrix: Solid

Analysis Batch: 427508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 426094

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	91		- 150
13C3 PFBS	98		- 150
18O2 PFHxS	99		- 150
13C4 PFOS	92		- 150
13C8 FOSA			- 150
d3-NMeFOSAA	84		- 150
-NEtFOSAA	86		- 150
M2-6:2 FTS	99		- 150
M2-8:2 FTS	88		- 150

Lab Sample ID: 460-221262-12 MS

Matrix: Solid

Analysis Batch: 427508

Client Sample ID: S11-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426094

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	It	Qualifier	Added	It	Qualifier				Limits	
Perfluorobutanoic acid (PFBA)	.27		.73	.70		ug/Kg	☼	89	76	36
Perfluoropentanoic acid (PFPeA)	.10	J	.73	.75		ug/Kg	☼	97	9	9
Perfluorohexanoic acid (PFHxA)	.13	J	.73	3.04		ug/Kg	☼	7	71	31
Perfluoroheptanoic acid (PFHpA)	.18	J	.73	3.17		ug/Kg	☼		71	31
Perfluorooctanoic acid (PFOA)	.58		.73	3.32		ug/Kg	☼		72	32
Perfluorononanoic acid (PFNA)	.41		.73	3.37		ug/Kg	☼	9	73	33
Perfluorodecanoic acid (PFDA)	.21	J	.73	3.1		ug/Kg	☼	7	72	32
Perfluoroundecanoic acid (PFUnA)	.30	F1	.73	3.93	F1	ug/Kg	☼	33		
Perfluorododecanoic acid (PFDoA)	ND		.73	3.42		ug/Kg	☼		71	31
Perfluorotridecanoic acid (PFTriA)	ND		.73	.84		ug/Kg	☼	4	71	31
Perfluorotetradecanoic acid (PFTeA)	ND		.73	.87		ug/Kg	☼	5	7	7
Perfluorobutanesulfonic acid (PFBS)	ND		.41	.49		ug/Kg	☼	3	9	9
Perfluorohexanesulfonic acid (PFHxS)	ND		.48	.69		ug/Kg	☼	8		
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.59	.81		ug/Kg	☼	8	76	36
Perfluorooctanesulfonic acid (PFOS)	.78	B	.53	3.30		ug/Kg	☼	99	8	41
Perfluorodecanesulfonic acid (PFDS)	ND		.63	.84		ug/Kg	☼	8	71	31
Perfluorooctanesulfonamide (FOSA)	ND		.73	3.06		ug/Kg	☼		77	37
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.73	.93		ug/Kg	☼	7	72	32
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.73	3.12		ug/Kg	☼	5	72	32
:2 FTS	ND		.58	.83		ug/Kg	☼	9	73	39
8:2 FTS	ND		.61	.90		ug/Kg	☼		75	35
	MS	MS								
Isotope Dilution	%Recovery	Qualifier	Limits							
13C4 PFBA	0		- 150							
13C5 PFPeA			- 150							

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: 460-221262-12 MS

Matrix: Solid

Analysis Batch: 427508

Client Sample ID: S11-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426094

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFHxA	3		- 150
13C4 PFHpA	0		- 150
13C4 PFOA	9		- 150
13C5 PFNA	1		- 150
13C2 PFDA	0		- 150
13C2 PFUnA	9		- 150
13C2 PFDoA			- 150
13C2 PFTeDA	43		- 150
13C3 PFBS	8		- 150
18O2 PFHxS			- 150
13C4 PFOS	4		- 150
13C8 FOSA	0		- 150
d3-NMeFOSAA	9		- 150
-NEtFOSAA	1		- 150
M2-6:2 FTS	0		- 150
M2-8:2 FTS			- 150

Lab Sample ID: 460-221262-12 MSD

Matrix: Solid

Analysis Batch: 427508

Client Sample ID: S11-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426094

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	PD	PD Limit
Perfluorobutanoic acid (PFBA)	.27		.59	.64		ug/Kg	✱	91	76 36		3
Perfluoropentanoic acid (PFPeA)	.10	J	.59	.63		ug/Kg	✱	98	9 9	4	30
Perfluorohexanoic acid (PFHxA)	.13	J	.59	.77		ug/Kg	✱		71 31		30
Perfluoroheptanoic acid (PFHpA)	.18	J	.59	3.03		ug/Kg	✱		71 31	5	30
Perfluorooctanoic acid (PFOA)	.58		.59	3.04		ug/Kg	✱	95	72 32	9	30
Perfluorononanoic acid (PFNA)	.41		.59	3.40		ug/Kg	✱		73 33		30
Perfluorodecanoic acid (PFDA)	.21	J	.59	.75		ug/Kg	✱	98	72 32		30
Perfluoroundecanoic acid (PFUnA)	.30	F1	.59	4.04	F1	ug/Kg	✱	45		3	30
Perfluorododecanoic acid (PFDoA)	ND		.59	.69		ug/Kg	✱	4	71 31	4	30
Perfluorotridecanoic acid (PFTriA)	ND		.59	.24		ug/Kg	✱	87	71 31	3	30
Perfluorotetradecanoic acid (PFTeA)	ND		.59	.66		ug/Kg	✱	3	7 7	8	30
Perfluorobutanesulfonic acid (PFBS)	ND		.29	.34		ug/Kg	✱		9 9		30
Perfluorohexanesulfonic acid (PFHxS)	ND		.35	.33		ug/Kg	✱	99		4	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.46	.66		ug/Kg	✱	8	76 36	5	30
Perfluorooctanesulfonic acid (PFOS)	.78	B	.40	3.29		ug/Kg	✱	4	8 41		30
Perfluorodecanesulfonic acid (PFDS)	ND		.49	.64		ug/Kg	✱		71 31	7	30
Perfluorooctanesulfonamide (FOSA)	ND		.59	.89		ug/Kg	✱		77 37		30
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	ND		.59	.78		ug/Kg	✱	7	72 32	5	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: 460-221262-12 MSD

Matrix: Solid

Analysis Batch: 427508

Client Sample ID: S11-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426094

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	PD	PD Limit
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	ND		.59	.89		ug/Kg	⊗		72 32	8	3
:2 FTS	ND		.45	.66		ug/Kg	⊗	8	73 39		30
8:2 FTS	ND		.48	.73		ug/Kg	⊗		75 35		30
Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits								
13C4 PFBA	47		- 150								
13C5 PFPeA	42		- 150								
13C2 PFHxA	1		- 150								
13C4 PFHpA	49		- 150								
13C4 PFOA	0		- 150								
13C5 PFNA	48		- 150								
13C2 PFDA	1		- 150								
13C2 PFUnA	43		- 150								
13C2 PFDoA	44		- 150								
13C2 PFTeDA	4	*5	- 150								
13C3 PFBS	45		- 150								
18O2 PFHxS	49		- 150								
13C4 PFOS	43		- 150								
13C8 FOSA	44		- 150								
d3-NMeFOSAA			- 150								
-NEtFOSAA	48		- 150								
M2-6:2 FTS	4		- 150								
M2-8:2 FTS			- 150								

Lab Sample ID: MB 320-426095/1-A

Matrix: Solid

Analysis Batch: 427153

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 426095

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	.0389	J	.20	.028	ug/Kg		8/20 07:03	30/20 21:37	
Perfluoropentanoic acid (PFPeA)	ND		.20	.077	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorohexanoic acid (PFHxA)	ND		.20	.042	ug/Kg		8/20 07:03	30/20 21:37	
Perfluoroheptanoic acid (PFHpA)	ND		.20	.029	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorooctanoic acid (PFOA)	ND		.20	.086	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorononanoic acid (PFNA)	ND		.20	.036	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorodecanoic acid (PFDA)	ND		.20	.022	ug/Kg		8/20 07:03	30/20 21:37	
Perfluoroundecanoic acid (PFUnA)	ND		.20	.036	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorododecanoic acid (PFDoA)	ND		.20	.067	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorotridecanoic acid (PFTriA)	ND		.20	.051	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorotetradecanoic acid (PFTeA)	ND		.20	.054	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorobutanesulfonic acid (PFBS)	ND		.20	.025	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorohexanesulfonic acid (PFHxS)	ND		.20	.031	ug/Kg		8/20 07:03	30/20 21:37	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.20	.035	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorooctanesulfonic acid (PFOS)	.479	J	.50	.20	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorodecanesulfonic acid (PFDS)	ND		.20	.039	ug/Kg		8/20 07:03	30/20 21:37	
Perfluorooctanesulfonamide (FOSA)	ND		.20	.082	ug/Kg		8/20 07:03	30/20 21:37	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.0	.39	ug/Kg		8/20 07:03	30/20 21:37	

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: MB 320-426095/1-A

Matrix: Solid

Analysis Batch: 427153

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 426095

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.0	.37	ug/Kg		8/20 07:03	30/20 21:37	
:2 FTS	ND		.0	.15	ug/Kg		8/20 07:03	30/20 21:37	
8:2 FTS	ND		.0	.25	ug/Kg		8/20 07:03	30/20 21:37	
Isotope Dilution	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Fac
13C4 PFBA	93		- 150				10/28/20 07:03	10/30/20 21:37	1
13C5 PFPeA	94		- 150				10/28/20 07:03	10/30/20 21:37	1
13C2 PFHxA	91		- 150				10/28/20 07:03	10/30/20 21:37	1
13C4 PFHpA	96		- 150				10/28/20 07:03	10/30/20 21:37	1
13C4 PFOA	93		- 150				10/28/20 07:03	10/30/20 21:37	1
13C5 PFNA	86		- 150				10/28/20 07:03	10/30/20 21:37	1
13C2 PFDA			- 150				10/28/20 07:03	10/30/20 21:37	1
13C2 PFUnA	4		- 150				10/28/20 07:03	10/30/20 21:37	1
13C2 PFDaA	43		- 150				10/28/20 07:03	10/30/20 21:37	1
13C2 PFTeDA	3	*5	- 150				10/28/20 07:03	10/30/20 21:37	1
13C3 PFBS	92		- 150				10/28/20 07:03	10/30/20 21:37	1
18O2 PFHxS	93		- 150				10/28/20 07:03	10/30/20 21:37	1
13C4 PFOS	81		- 150				10/28/20 07:03	10/30/20 21:37	1
13C8 FOSA	3		- 150				10/28/20 07:03	10/30/20 21:37	1
d3-NMeFOSAA	31		- 150				10/28/20 07:03	10/30/20 21:37	1
-NEtFOSAA	8		- 150				10/28/20 07:03	10/30/20 21:37	1
M2-6:2 FTS	8		- 150				10/28/20 07:03	10/30/20 21:37	1
M2-8:2 FTS	40		- 150				10/28/20 07:03	10/30/20 21:37	1

Lab Sample ID: LCS 320-426095/2-A

Matrix: Solid

Analysis Batch: 427153

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 426095

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	.00	.17		ug/Kg		9	76 36
Perfluoropentanoic acid (PFPeA)	.00	.02		ug/Kg			9 9
Perfluorohexanoic acid (PFHxA)	.00	.14		ug/Kg		7	71 31
Perfluoroheptanoic acid (PFHpA)	.00	.21		ug/Kg			71 31
Perfluorooctanoic acid (PFOA)	.00	.98		ug/Kg		99	72 32
Perfluorononanoic acid (PFNA)	.00	.18		ug/Kg		9	73 33
Perfluorodecanoic acid (PFDA)	.00	.37		ug/Kg		9	72 32
Perfluoroundecanoic acid (PFUnA)	.00	.07		ug/Kg		4	
Perfluorododecanoic acid (PFDaA)	.00	.20		ug/Kg			71 31
Perfluorotridecanoic acid (PFTriA)	.00	.88		ug/Kg		94	71 31
Perfluorotetradecanoic acid (PFTeA)	.00	.06		ug/Kg		3	7 7
Perfluorobutanesulfonic acid (PFBS)	.77	.78		ug/Kg			9 9
Perfluorohexanesulfonic acid (PFHxS)	.82	.77		ug/Kg		97	
Perfluoroheptanesulfonic Acid (PFHpS)	.90	.29		ug/Kg			76 36

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: LCS 320-426095/2-A

Matrix: Solid

Analysis Batch: 427153

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 426095

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	.86	3.09	*	ug/Kg			8 41
Perfluorodecanesulfonic acid (PFDS)	.93	.19	*	ug/Kg			71 31
Perfluorooctanesulfonamide (FOSA)	.00	.23		ug/Kg			77 37
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	.00	.01		ug/Kg			72 32
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	.00	.03		ug/Kg			72 32
:2 FTS	.90	.88	J	ug/Kg		99	73 39
8:2 FTS	.92	.12		ug/Kg			75 35

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	90		- 150
13C5 PFPeA	90		- 150
13C2 PFHxA	92		- 150
13C4 PFHpA	94		- 150
13C4 PFOA	90		- 150
13C5 PFNA	85		- 150
13C2 PFDA	1		- 150
13C2 PFUnA			- 150
13C2 PFDoA	46		- 150
13C2 PFTeDA	46		- 150
13C3 PFBS	97		- 150
18O2 PFHxS	97		- 150
13C4 PFOS	81		- 150
13C8 FOSA	1		- 150
d3-NMeFOSAA	8		- 150
-NEtFOSAA	3	*5	- 150
M2-6:2 FTS			- 150
M2-8:2 FTS	41		- 150

Lab Sample ID: 460-221262-24 MS

Matrix: Solid

Analysis Batch: 427153

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426095

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	.19	J B	.51	.53		ug/Kg	✱	93	76 36
Perfluoropentanoic acid (PFPeA)	.20	J	.51	.60		ug/Kg	✱	96	9 9
Perfluorohexanoic acid (PFHxA)	.20	J	.51	.74		ug/Kg	✱		71 31
Perfluoroheptanoic acid (PFHpA)	.15	J	.51	.89		ug/Kg	✱	9	71 31
Perfluorooctanoic acid (PFOA)	.60		.51	3.23		ug/Kg	✱	5	72 32
Perfluorononanoic acid (PFNA)	.24	J	.51	3.00		ug/Kg	✱		73 33
Perfluorodecanoic acid (PFDA)	.27		.51	.80		ug/Kg	✱		72 32
Perfluoroundecanoic acid (PFUnA)	.22	J F1	.51	3.55	F1	ug/Kg	✱	33	
Perfluorododecanoic acid (PFDoA)	.14	J	.51	.90		ug/Kg	✱		71 31
Perfluorotridecanoic acid (PFTriA)	ND		.51	.31		ug/Kg	✱	92	71 31

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: 460-221262-24 MS

Matrix: Solid

Analysis Batch: 427153

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426095

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Perfluorotetradecanoic acid (PFTeA)	ND		.51	.87		ug/Kg	✱	5	7	7
Perfluorobutanesulfonic acid (PFBS)	.079	J	.22	.48		ug/Kg	✱	8	9	9
Perfluorohexanesulfonic acid (PFHxS)	.073	J	.28	.41		ug/Kg	✱	3		
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.39	.76		ug/Kg	✱		76	36
Perfluorooctanesulfonic acid (PFOS)	.9	B *	.33	5.42		ug/Kg	✱	7	8	41
Perfluorodecanesulfonic acid (PFDS)	.16	J *	.42	.72		ug/Kg	✱		71	31
Perfluorooctanesulfonamide (FOSA)	ND		.51	.87		ug/Kg	✱	4	77	37
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.51	.79		ug/Kg	✱		72	32
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.51	.80		ug/Kg	✱		72	32
:2 FTS	ND		.38	.47	J	ug/Kg	✱	4	73	39
8:2 FTS	ND		.40	.69		ug/Kg	✱		75	35

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	8		- 150
13C5 PFPeA			- 150
13C2 PFHxA	85		- 150
13C4 PFHpA	85		- 150
13C4 PFOA	82		- 150
13C5 PFNA	83		- 150
13C2 PFDA	86		- 150
13C2 PFUnA	85		- 150
13C2 PFDoA	9		- 150
13C2 PFTeDA	0		- 150
13C3 PFBS	4		- 150
18O2 PFHxS	82		- 150
13C4 PFOS	8		- 150
13C8 FOSA			- 150
d3-NMeFOSAA	80		- 150
-NEtFOSAA	80		- 150
M2-6:2 FTS	108		- 150
M2-8:2 FTS	11		- 150

Lab Sample ID: 460-221262-24MSD

Matrix: Solid

Analysis Batch: 427153

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426095

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		PD	Limit
Perfluorobutanoic acid (PFBA)	.19	J B	.41	.52		ug/Kg	✱	97	76	36		3
Perfluoropentanoic acid (PFPeA)	.20	J	.41	.58		ug/Kg	✱	99	9	9		30
Perfluorohexanoic acid (PFHxA)	.20	J	.41	.87		ug/Kg	✱		71	31	4	30
Perfluoroheptanoic acid (PFHpA)	.15	J	.41	.68		ug/Kg	✱	5	71	31	7	30
Perfluorooctanoic acid (PFOA)	.60		.41	3.07		ug/Kg	✱	3	72	32	5	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: 460-221262-24MSD

Matrix: Solid

Analysis Batch: 427153

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426095

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		PD	PD Limit
Perfluorononanoic acid (PFNA)	.24	J	.41	.72		ug/Kg	✱	3	73	33		30
Perfluorodecanoic acid (PFDA)	.27		.41	.63		ug/Kg	✱	98	72	32		30
Perfluoroundecanoic acid (PFUnA)	.22	J F1	.41	3.70	F1	ug/Kg	✱	45			4	30
Perfluorododecanoic acid (PFDoA)	.14	J	.41	.88		ug/Kg	✱	4	71	31		30
Perfluorotridecanoic acid (PFTriA)	ND		.41	.40		ug/Kg	✱	99	71	31	4	30
Perfluorotetradecanoic acid (PFTeA)	ND		.41	.71		ug/Kg	✱		7	7		30
Perfluorobutanesulfonic acid (PFBS)	.079	J	.13	.38		ug/Kg	✱	8	9	9	4	30
Perfluorohexanesulfonic acid (PFHxS)	.073	J	.19	.15		ug/Kg	✱	95				30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.29	.56		ug/Kg	✱		76	36	8	30
Perfluorooctanesulfonic acid (PFOS)	.9	B *	.24	5.32		ug/Kg	✱	7	8	41		30
Perfluorodecanesulfonic acid (PFDS)	.16	J *	.32	.72		ug/Kg	✱		71	31		30
Perfluorooctanesulfonamide (FOSA)	ND		.41	.85		ug/Kg	✱	8	77	37		30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.41	.63		ug/Kg	✱	9	72	32		30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.41	.86		ug/Kg	✱	9	72	32		30
:2 FTS	ND		.28	.54		ug/Kg	✱		73	39	3	30
8:2 FTS	ND		.31	.46		ug/Kg	✱	7	75	35	9	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	83		- 150
13C5 PFPeA	0		- 150
13C2 PFHxA	89		- 150
13C4 PFHpA	92		- 150
13C4 PFOA	89		- 150
13C5 PFNA	95		- 150
13C2 PFDA	95		- 150
13C2 PFUnA	80		- 150
13C2 PFDoA	8		- 150
13C2 PFTeDA			- 150
13C3 PFBS	82		- 150
18O2 PFHxS	95		- 150
13C4 PFOS	84		- 150
13C8 FOSA			- 150
d3-NMeFOSAA	90		- 150
-NEtFOSAA	85		- 150
M2-6:2 FTS	120		- 150
M2-8:2 FTS	11		- 150

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: MB 320-426801/1-A

Matrix: Solid

Analysis Batch: 427738

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 426801

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.20	.028	ug/Kg		30/20 04:16	14:26	
Perfluoropentanoic acid (PFPeA)	ND		.20	.077	ug/Kg		30/20 04:16	14:26	
Perfluorohexanoic acid (PFHxA)	ND		.20	.042	ug/Kg		30/20 04:16	14:26	
Perfluoroheptanoic acid (PFHpA)	ND		.20	.029	ug/Kg		30/20 04:16	14:26	
Perfluorooctanoic acid (PFOA)	ND		.20	.086	ug/Kg		30/20 04:16	14:26	
Perfluorononanoic acid (PFNA)	ND		.20	.036	ug/Kg		30/20 04:16	14:26	
Perfluorodecanoic acid (PFDA)	ND		.20	.022	ug/Kg		30/20 04:16	14:26	
Perfluoroundecanoic acid (PFUnA)	ND		.20	.036	ug/Kg		30/20 04:16	14:26	
Perfluorododecanoic acid (PFDoA)	ND		.20	.067	ug/Kg		30/20 04:16	14:26	
Perfluorotridecanoic acid (PFTriA)	ND		.20	.051	ug/Kg		30/20 04:16	14:26	
Perfluorotetradecanoic acid (PFTeA)	ND		.20	.054	ug/Kg		30/20 04:16	14:26	
Perfluorobutanesulfonic acid (PFBS)	ND		.20	.025	ug/Kg		30/20 04:16	14:26	
Perfluorohexanesulfonic acid (PFHxS)	ND		.20	.031	ug/Kg		30/20 04:16	14:26	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.20	.035	ug/Kg		30/20 04:16	14:26	
Perfluorooctanesulfonic acid (PFOS)	ND		.50	.20	ug/Kg		30/20 04:16	14:26	
Perfluorodecanesulfonic acid (PFDS)	ND		.20	.039	ug/Kg		30/20 04:16	14:26	
Perfluorooctanesulfonamide (FOSA)	ND		.20	.082	ug/Kg		30/20 04:16	14:26	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.0	.39	ug/Kg		30/20 04:16	14:26	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.0	.37	ug/Kg		30/20 04:16	14:26	
:2 FTS	ND		.0	.15	ug/Kg		30/20 04:16	14:26	
8:2 FTS	ND		.0	.25	ug/Kg		30/20 04:16	14:26	

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA	83		- 150	10/30/20 04:16	11/02/20 14:26	1
13C5 PFPeA	82		- 150	10/30/20 04:16	11/02/20 14:26	1
13C2 PFHxA	84		- 150	10/30/20 04:16	11/02/20 14:26	1
13C4 PFHpA	86		- 150	10/30/20 04:16	11/02/20 14:26	1
13C4 PFOA	95		- 150	10/30/20 04:16	11/02/20 14:26	1
13C5 PFNA	87		- 150	10/30/20 04:16	11/02/20 14:26	1
13C2 PFDA	89		- 150	10/30/20 04:16	11/02/20 14:26	1
13C2 PFUnA	91		- 150	10/30/20 04:16	11/02/20 14:26	1
13C2 PFDoA	87		- 150	10/30/20 04:16	11/02/20 14:26	1
13C2 PFTeDA	87		- 150	10/30/20 04:16	11/02/20 14:26	1
13C3 PFBS	91		- 150	10/30/20 04:16	11/02/20 14:26	1
18O2 PFHxS	93		- 150	10/30/20 04:16	11/02/20 14:26	1
13C4 PFOS	92		- 150	10/30/20 04:16	11/02/20 14:26	1
13C8 FOSA	92		- 150	10/30/20 04:16	11/02/20 14:26	1
d3-NMeFOSAA	86		- 150	10/30/20 04:16	11/02/20 14:26	1
-NEtFOSAA	90		- 150	10/30/20 04:16	11/02/20 14:26	1
M2-6:2 FTS	106		- 150	10/30/20 04:16	11/02/20 14:26	1
M2-8:2 FTS	92		- 150	10/30/20 04:16	11/02/20 14:26	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: LCS 320-426801/2-A

Matrix: Solid

Analysis Batch: 427738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 426801

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Perfluorobutanoic acid (PFBA)	.00	.13		ug/Kg		7	76	36
Perfluoropentanoic acid (PFPeA)	.00	.03		ug/Kg			9	9
Perfluorohexanoic acid (PFHxA)	.00	.07		ug/Kg		4	71	31
Perfluoroheptanoic acid (PFHpA)	.00	.23		ug/Kg			71	31
Perfluorooctanoic acid (PFOA)	.00	.92		ug/Kg		96	72	32
Perfluorononanoic acid (PFNA)	.00	.01		ug/Kg			73	33
Perfluorodecanoic acid (PFDA)	.00	.12		ug/Kg			72	32
Perfluoroundecanoic acid (PFUnA)	.00	.29		ug/Kg		5		
Perfluorododecanoic acid (PFDoA)	.00	.37		ug/Kg		9	71	31
Perfluorotridecanoic acid (PFTriA)	.00	.06		ug/Kg		3	71	31
Perfluorotetradecanoic acid (PFTeA)	.00	.05		ug/Kg		3	7	7
Perfluorobutanesulfonic acid (PFBS)	.77	.87		ug/Kg			9	9
Perfluorohexanesulfonic acid (PFHxS)	.82	.76		ug/Kg		97		
Perfluoroheptanesulfonic Acid (PFHpS)	.90	.07		ug/Kg		9	76	36
Perfluorooctanesulfonic acid (PFOS)	.86	.13		ug/Kg		5	8	41
Perfluorodecanesulfonic acid (PFDS)	.93	.09		ug/Kg		8	71	31
Perfluorooctanesulfonamide (FOSA)	.00	.21		ug/Kg			77	37
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	.00	.06		ug/Kg		3	72	32
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	.00	.1		ug/Kg		5	72	32
:2 FTS	.90	.90	J	ug/Kg			73	39
8:2 FTS	.92	.1		ug/Kg			75	35

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	83		- 150
13C5 PFPeA	83		- 150
13C2 PFHxA	87		- 150
13C4 PFHpA	87		- 150
13C4 PFOA	91		- 150
13C5 PFNA	90		- 150
13C2 PFDA	85		- 150
13C2 PFUnA	8		- 150
13C2 PFDoA	86		- 150
13C2 PFTeDA	92		- 150
13C3 PFBS	93		- 150
18O2 PFHxS	96		- 150
13C4 PFOS	91		- 150
13C8 FOSA	87		- 150
3-NMeFOSAA	83		- 150
-NEtFOSAA	86		- 150

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: LCS 320-426801/2-A

Matrix: Solid

Analysis Batch: 427738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 426801

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	98		- 150
M2-8:2 FTS	83		- 150

Lab Sample ID: 460-221262-9 MS

Matrix: Solid

Analysis Batch: 427738

Client Sample ID: DUP1-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426801

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	.55		.68	3.1		ug/Kg	✱	95	76 36
Perfluoropentanoic acid (PFPeA)	.29		.68	.89		ug/Kg	✱	97	9 9
Perfluorohexanoic acid (PFHxA)	.27	J	.68	3.06		ug/Kg	✱	4	71 31
Perfluoroheptanoic acid (PFHpA)	.29		.68	3.30		ug/Kg	✱		71 31
Perfluorooctanoic acid (PFOA)	.1		.68	3.47		ug/Kg	✱	89	72 32
Perfluorononanoic acid (PFNA)	.43		.68	3.57		ug/Kg	✱	7	73 33
Perfluorodecanoic acid (PFDA)	.24	J	.68	.98		ug/Kg	✱		72 32
Perfluoroundecanoic acid (PFUnA)	.25	J F1	.68	4.22	F1	ug/Kg	✱	48	
Perfluorododecanoic acid (PFDoA)	.1	J	.68	3.59		ug/Kg	✱	9	71 31
Perfluorotridecanoic acid (PFTriA)	.087	J	.68	.83		ug/Kg	✱		71 31
Perfluorotetradecanoic acid (PFTeA)	ND		.68	.97		ug/Kg	✱		7 7
Perfluorobutanesulfonic acid (PFBS)	.26	J	.37	.91		ug/Kg	✱		9 9
Perfluorohexanesulfonic acid (PFHxS)	.052	J	.44	.64		ug/Kg	✱		
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.55	.87		ug/Kg	✱	3	76 36
Perfluorooctanesulfonic acid (PFOS)	.5		.49	4.05		ug/Kg	✱	4	8 41
Perfluorodecanesulfonic acid (PFDS)	ND		.59	.71		ug/Kg	✱	5	71 31
Perfluorooctanesulfonamide (FOSA)	ND		.68	3.03		ug/Kg	✱	3	77 37
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.68	3.20		ug/Kg	✱	9	72 32
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.68	3.16		ug/Kg	✱	8	72 32
:2 FTS	ND		.54	.71		ug/Kg	✱	7	73 39
8:2 FTS	ND		.57	.76		ug/Kg	✱	7	75 35

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	4		- 150
13C5 PFPeA			- 150
13C2 PFHxA	82		- 150
13C4 PFHpA	81		- 150
13C4 PFOA	87		- 150
13C5 PFNA			- 150
13C2 PFDA	90		- 150
13C2 PFUnA	80		- 150
13C2 PFDoA			- 150

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: 460-221262-9 MS

Matrix: Solid

Analysis Batch: 427738

Client Sample ID: DUP1-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426801

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFTeDA			- 150
13C3 PFBS	1		- 150
18O2 PFHxS	82		- 150
13C4 PFOS			- 150
13C8 FOSA	8		- 150
d3-NMeFOSAA	83		- 150
-NEtFOSAA	80		- 150
M2-6:2 FTS	121		- 150
M2-8:2 FTS	11		- 150

Lab Sample ID: 460-221262-9 MSD

Matrix: Solid

Analysis Batch: 427738

Client Sample ID: DUP1-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426801

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	PD	PD Limit
Perfluorobutanoic acid (PFBA)	.55		.67	.98		ug/Kg	⊛	91	76 36	4	3
Perfluoropentanoic acid (PFPeA)	.29		.67	.87		ug/Kg	⊛	97	9 9		30
Perfluorohexanoic acid (PFHxA)	.27	J	.67	3.18		ug/Kg	⊛	9	71 31	4	30
Perfluoroheptanoic acid (PFHpA)	.29		.67	3.22		ug/Kg	⊛		71 31	3	30
Perfluorooctanoic acid (PFOA)	.1		.67	3.44		ug/Kg	⊛	88	72 32		30
Perfluorononanoic acid (PFNA)	.43		.67	3.41		ug/Kg	⊛		73 33	5	30
Perfluorodecanoic acid (PFDA)	.24	J	.67	3.09		ug/Kg	⊛	7	72 32	4	30
Perfluoroundecanoic acid (PFUnA)	.25	J F1	.67	4.27	F1	ug/Kg	⊛	51			30
Perfluorododecanoic acid (PFDoA)	.1	J	.67	3.33		ug/Kg	⊛		71 31	7	30
Perfluorotridecanoic acid (PFTriA)	.087	J	.67	.67		ug/Kg	⊛	97	71 31		30
Perfluorotetradecanoic acid (PFTeA)	ND		.67	3.1		ug/Kg	⊛	7	7 7	5	30
Perfluorobutanesulfonic acid (PFBS)	.26	J	.36	3.02		ug/Kg	⊛	7	9 9	4	30
Perfluorohexanesulfonic acid (PFHxS)	.052	J	.43	.57		ug/Kg	⊛	4		3	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.54	.99		ug/Kg	⊛	8	76 36	4	30
Perfluorooctanesulfonic acid (PFOS)	.5		.48	4.16		ug/Kg	⊛	8	8 41	3	30
Perfluorodecanesulfonic acid (PFDS)	ND		.57	3.02		ug/Kg	⊛	7	71 31		30
Perfluorooctanesulfonamide (FOSA)	ND		.67	.79		ug/Kg	⊛	5	77 37	8	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.67	3.05		ug/Kg	⊛	4	72 32	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.67	3.09		ug/Kg	⊛		72 32		30
:2 FTS	ND		.53	.85		ug/Kg	⊛	3	73 139	5	30
8:2 FTS	ND		.56	.81		ug/Kg	⊛		75 35		30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	3		- 150
13C5 PFPeA			- 150

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: 460-221262-9 MSD

Matrix: Solid

Analysis Batch: 427738

Client Sample ID: DUP1-SOIL-102120

Prep Type: Total/NA

Prep Batch: 426801

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFHxA	9		- 150
13C4 PFHpA	9		- 150
13C4 PFOA	88		- 150
13C5 PFNA	83		- 150
13C2 PFDA	82		- 150
13C2 PFUnA			- 150
13C2 PFDoA			- 150
13C2 PFTeDA	44		- 150
13C3 PFBS	0		- 150
18O2 PFHxS	80		- 150
13C4 PFOS	4		- 150
13C8 FOSA			- 150
3-NMeFOSAA	83		- 150
-NEtFOSAA	84		- 150
M2-6:2 FTS	123		- 150
M2-8:2 FTS	11		- 150

Lab Sample ID: MB 320-427709/1-A

Matrix: Solid

Analysis Batch: 428856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 427709

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.20	.028	ug/Kg		12:18	5/20 15:24	
Perfluoropentanoic acid (PFPeA)	ND		.20	.077	ug/Kg		12:18	5/20 15:24	
Perfluorohexanoic acid (PFHxA)	ND		.20	.042	ug/Kg		12:18	5/20 15:24	
Perfluoroheptanoic acid (PFHpA)	ND		.20	.029	ug/Kg		12:18	5/20 15:24	
Perfluorooctanoic acid (PFOA)	ND		.20	.086	ug/Kg		12:18	5/20 15:24	
Perfluorononanoic acid (PFNA)	ND		.20	.036	ug/Kg		12:18	5/20 15:24	
Perfluorodecanoic acid (PFDA)	ND		.20	.022	ug/Kg		12:18	5/20 15:24	
Perfluoroundecanoic acid (PFUnA)	ND		.20	.036	ug/Kg		12:18	5/20 15:24	
Perfluorododecanoic acid (PFDoA)	ND		.20	.067	ug/Kg		12:18	5/20 15:24	
Perfluorotridecanoic acid (PFTriA)	ND		.20	.051	ug/Kg		12:18	5/20 15:24	
Perfluorotetradecanoic acid (PFTeA)	ND		.20	.054	ug/Kg		12:18	5/20 15:24	
Perfluorobutanesulfonic acid (PFBS)	ND		.20	.025	ug/Kg		12:18	5/20 15:24	
Perfluorohexanesulfonic acid (PFHxS)	ND		.20	.031	ug/Kg		12:18	5/20 15:24	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.20	.035	ug/Kg		12:18	5/20 15:24	
Perfluorooctanesulfonic acid (PFOS)	ND		.50	.20	ug/Kg		12:18	5/20 15:24	
Perfluorodecanesulfonic acid (PFDS)	ND		.20	.039	ug/Kg		12:18	5/20 15:24	
Perfluorooctanesulfonamide (FOSA)	ND		.20	.082	ug/Kg		12:18	5/20 15:24	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.0	.39	ug/Kg		12:18	5/20 15:24	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.0	.37	ug/Kg		12:18	5/20 15:24	
:2 FTS	ND		.0	.15	ug/Kg		12:18	5/20 15:24	
8:2 FTS	ND		.0	.25	ug/Kg		12:18	5/20 15:24	

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA	4		- 150	11/02/20 12:18	11/05/20 15:24	1
13C5 PFPeA	8		- 150	11/02/20 12:18	11/05/20 15:24	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: MB 320-427709/1-A

Matrix: Solid

Analysis Batch: 428856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 427709

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C2 PFHxA	84		- 150	11/02/20 12:18	11/05/20 15:24	1
13C4 PFHpA	86		- 150	11/02/20 12:18	11/05/20 15:24	1
13C4 PFOA	94		- 150	11/02/20 12:18	11/05/20 15:24	1
13C5 PFNA	90		- 150	11/02/20 12:18	11/05/20 15:24	1
13C2 PFDA	88		- 150	11/02/20 12:18	11/05/20 15:24	1
13C2 PFUnA	87		- 150	11/02/20 12:18	11/05/20 15:24	1
13C2 PFDoA	86		- 150	11/02/20 12:18	11/05/20 15:24	1
13C2 PFTeDA	93		- 150	11/02/20 12:18	11/05/20 15:24	1
13C3 PFBS	84		- 150	11/02/20 12:18	11/05/20 15:24	1
18O2 PFHxS	90		- 150	11/02/20 12:18	11/05/20 15:24	1
13C4 PFOS	88		- 150	11/02/20 12:18	11/05/20 15:24	1
13C8 FOSA	80		- 150	11/02/20 12:18	11/05/20 15:24	1
d3-NMeFOSAA			- 150	11/02/20 12:18	11/05/20 15:24	1
-NEtFOSAA	0		- 150	11/02/20 12:18	11/05/20 15:24	1
M2-6:2 FTS	86		- 150	11/02/20 12:18	11/05/20 15:24	1
M2-8:2 FTS			- 150	11/02/20 12:18	11/05/20 15:24	1

Lab Sample ID: LCS 320-427709/2-A

Matrix: Solid

Analysis Batch: 428856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 427709

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	.00	.06		ug/Kg		3	76 36
Perfluoropentanoic acid (PFPeA)	.00	.83		ug/Kg		92	9 9
Perfluorohexanoic acid (PFHxA)	.00	.97		ug/Kg		99	71 31
Perfluoroheptanoic acid (PFHpA)	.00	.99		ug/Kg			71 31
Perfluorooctanoic acid (PFOA)	.00	.89		ug/Kg		95	72 32
Perfluorononanoic acid (PFNA)	.00	.99		ug/Kg		99	73 33
Perfluorodecanoic acid (PFDA)	.00	.03		ug/Kg			72 32
Perfluoroundecanoic acid (PFUnA)	.00	.99		ug/Kg			
Perfluorododecanoic acid (PFDoA)	.00	.96		ug/Kg		98	71 31
Perfluorotridecanoic acid (PFTriA)	.00	.02		ug/Kg			71 31
Perfluorotetradecanoic acid (PFTeA)	.00	.02		ug/Kg			7 7
Perfluorobutanesulfonic acid (PFBS)	.77	.80		ug/Kg			9 9
Perfluorohexanesulfonic acid (PFHxS)	.82	.63		ug/Kg		90	
Perfluoroheptanesulfonic Acid (PFHpS)	.90	.84		ug/Kg		97	76 36
Perfluorooctanesulfonic acid (PFOS)	.86	.87		ug/Kg			8 41
Perfluorodecanesulfonic acid (PFDS)	.93	.82		ug/Kg		95	71 31
Perfluorooctanesulfonamide (FOSA)	.00	.05		ug/Kg		3	77 37
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	.00	.88	J	ug/Kg		94	72 32

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: LCS 320-427709/2-A

Matrix: Solid

Analysis Batch: 428856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 427709

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
N-ethylperfluorooctanesulfonami doacetic acid (NETFOSAA)	.00	.96	J	ug/Kg		98	72	32
:2 FTS	.90	.47	J	ug/Kg		78	73	39
8:2 FTS	.92	.74	J	ug/Kg		91	75	35
LCS		LCS						
Isotope Dilution	%Recovery	Qualifier	Limits					
13C4 PFBA	8		- 150					
13C5 PFPeA	84		- 150					
13C2 PFHxA	90		- 150					
13C4 PFHpA	92		- 150					
13C4 PFOA	94		- 150					
13C5 PFNA	90		- 150					
13C2 PFDA	94		- 150					
13C2 PFUnA	89		- 150					
13C2 PFDoA	90		- 150					
13C2 PFTeDA	93		- 150					
13C3 PFBS	88		- 150					
18O2 PFHxS	94		- 150					
13C4 PFOS	90		- 150					
13C8 FOSA	85		- 150					
3-NMeFOSAA	8		- 150					
-NEtFOSAA	3		- 150					
M2-6:2 FTS	90		- 150					
M2-8:2 FTS	85		- 150					

Lab Sample ID: 460-221262-6 MS

Matrix: Solid

Analysis Batch: 428856

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 427709

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Perfluorobutanoic acid (PFBA)	.90		.45	3.52		ug/Kg	✱	7	76	36
Perfluoropentanoic acid (PFPeA)	.6		.45	3.83		ug/Kg	✱	93	9	9
Perfluorohexanoic acid (PFHxA)	.1		.45	3.75		ug/Kg	✱		71	31
Perfluoroheptanoic acid (PFHpA)	.0		.45	3.61		ug/Kg	✱	5	71	31
Perfluorooctanoic acid (PFOA)	.1		.45	3.34		ug/Kg	✱	90	72	32
Perfluorononanoic acid (PFNA)	.2		.45	3.75		ug/Kg	✱	5	73	33
Perfluorodecanoic acid (PFDA)	.1		.45	4.95		ug/Kg	✱	5	72	32
Perfluoroundecanoic acid (PFUnA)	.86		.45	3.62		ug/Kg	✱	3		
Perfluorododecanoic acid (PFDoA)	.28		.45	.70		ug/Kg	✱	99	71	31
Perfluorotridecanoic acid (PFTriA)	.1	J	.45	.59		ug/Kg	✱		71	31
Perfluorotetradecanoic acid (PFTeA)	.066	J	.45	.66		ug/Kg	✱		7	7
Perfluorobutanesulfonic acid (PFBS)	ND		.17	.38		ug/Kg	✱		9	9
Perfluorohexanesulfonic acid (PFHxS)	ND		.23	.13		ug/Kg	✱	96		
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.33	.37		ug/Kg	✱		76	36

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: 460-221262-6 MS

Matrix: Solid

Analysis Batch: 428856

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 427709

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Perfluorooctanesulfonic acid (PFOS)	.65		.27	3.10		ug/Kg	✱	8	8	41
Perfluorodecanesulfonic acid (PFDS)	ND		.36	.62		ug/Kg	✱		71	31
Perfluorooctanesulfonamide (FOSA)	ND		.45	.70		ug/Kg	✱		77	37
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.45	.73		ug/Kg	✱		72	32
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.45	.80		ug/Kg	✱	4	72	32
:2 FTS	.23	J	.32	.26	J	ug/Kg	✱	87	73	39
8:2 FTS	.70	J	.35	3.1		ug/Kg	✱	3	75	35

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	8		- 150
13C5 PFPeA			- 150
13C2 PFHxA	88		- 150
13C4 PFHpA	88		- 150
13C4 PFOA	91		- 150
13C5 PFNA	88		- 150
13C2 PFDA	80		- 150
13C2 PFUnA	85		- 150
13C2 PFDoA	90		- 150
13C2 PFTeDA	96		- 150
13C3 PFBS			- 150
18O2 PFHxS	87		- 150
13C4 PFOS	87		- 150
13C8 FOSA			- 150
3-NMeFOSAA	0		- 150
-NEtFOSAA			- 150
M2-6:2 FTS	137		- 150
M2-8:2 FTS	167	*5	- 150

Lab Sample ID: 460-221262-6 MSD

Matrix: Solid

Analysis Batch: 428856

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 427709

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		PD Limit
Perfluorobutanoic acid (PFBA)	.90		.45	3.50		ug/Kg	✱		76	36	3
Perfluoropentanoic acid (PFPeA)	.6		.45	3.84		ug/Kg	✱	93	9	9	30
Perfluorohexanoic acid (PFHxA)	.1		.45	3.88		ug/Kg	✱	5	71	31	3
Perfluoroheptanoic acid (PFHpA)	.0		.45	3.85		ug/Kg	✱	5	71	31	30
Perfluorooctanoic acid (PFOA)	.1		.45	3.30		ug/Kg	✱	89	72	32	30
Perfluorononanoic acid (PFNA)	.2		.45	3.76		ug/Kg	✱		73	33	30
Perfluorodecanoic acid (PFDA)	.1		.45	4.80		ug/Kg	✱	9	72	32	3
Perfluoroundecanoic acid (PFUnA)	.86		.45	3.43		ug/Kg	✱	5			5
Perfluorododecanoic acid (PFDoA)	.28		.45	.68		ug/Kg	✱	98	71	31	30
Perfluorotridecanoic acid (PFTriA)	.1	J	.45	.43		ug/Kg	✱	95	71	31	7

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: 460-221262-6 MSD

Matrix: Solid

Analysis Batch: 428856

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 427709

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		PD	PD Limit
Perfluorotetradecanoic acid (PFTeA)	.066	J	.45	.64		ug/Kg	✱	5	7	7		3
Perfluorobutanesulfonic acid (PFBS)	ND		.16	.42		ug/Kg	✱		9	9		30
Perfluorohexanesulfonic acid (PFHxS)	ND		.23	.20		ug/Kg	✱	99			3	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.33	.53		ug/Kg	✱	8	76	36		30
Perfluorooctanesulfonic acid (PFOS)	.65		.27	.93		ug/Kg	✱		8	41	5	30
Perfluorodecanesulfonic acid (PFDS)	ND		.36	.76		ug/Kg	✱	7	71	31	5	30
Perfluorooctanesulfonamide (FOSA)	ND		.45	.88		ug/Kg	✱	8	77	37		30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.45	.77		ug/Kg	✱	3	72	32		30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.45	.73		ug/Kg	✱		72	32	3	30
:2 FTS	.23	J	.32	.34	J	ug/Kg	✱	91	73	39	4	30
8:2 FTS	.70	J	.34	3.26		ug/Kg	✱	9	75	35	5	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA			- 150
13C5 PFPeA	4		- 150
13C2 PFHxA	85		- 150
13C4 PFHpA	85		- 150
13C4 PFOA	91		- 150
13C5 PFNA	87		- 150
13C2 PFDA	85		- 150
13C2 PFUnA	94		- 150
13C2 PFDoA	92		- 150
13C2 PFTeDA	94		- 150
13C3 PFBS			- 150
18O2 PFHxS	85		- 150
13C4 PFOS	86		- 150
13C8 FOSA			- 150
3-NMeFOSAA	9		- 150
-NEtFOSAA	4		- 150
M2-6:2 FTS	147		- 150
M2-8:2 FTS	164	*5	- 150

Lab Sample ID: MB 320-429933/1-A

Matrix: Solid

Analysis Batch: 430542

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 429933

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.20	.028	ug/Kg		9/20 15:20	10:29	
Perfluoropentanoic acid (PFPeA)	ND		.20	.077	ug/Kg		9/20 15:20	10:29	
Perfluorohexanoic acid (PFHxA)	ND		.20	.042	ug/Kg		9/20 15:20	10:29	
Perfluoroheptanoic acid (PFHpA)	ND		.20	.029	ug/Kg		9/20 15:20	10:29	
Perfluorooctanoic acid (PFOA)	ND		.20	.086	ug/Kg		9/20 15:20	10:29	

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: MB 320-429933/1-A

Matrix: Solid

Analysis Batch: 430542

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 429933

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	ND		.20	.036	ug/Kg		9/20 15:20	10:29	
Perfluorodecanoic acid (PFDA)	ND		.20	.022	ug/Kg		9/20 15:20	10:29	
Perfluoroundecanoic acid (PFUnA)	ND		.20	.036	ug/Kg		9/20 15:20	10:29	
Perfluorododecanoic acid (PFDoA)	ND		.20	.067	ug/Kg		9/20 15:20	10:29	
Perfluorotridecanoic acid (PFTriA)	ND		.20	.051	ug/Kg		9/20 15:20	10:29	
Perfluorotetradecanoic acid (PFTeA)	ND		.20	.054	ug/Kg		9/20 15:20	10:29	
Perfluorobutanesulfonic acid (PFBS)	ND		.20	.025	ug/Kg		9/20 15:20	10:29	
Perfluorohexanesulfonic acid (PFHxS)	ND		.20	.031	ug/Kg		9/20 15:20	10:29	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.20	.035	ug/Kg		9/20 15:20	10:29	
Perfluorooctanesulfonic acid (PFOS)	.347	J	.50	.20	ug/Kg		9/20 15:20	10:29	
Perfluorodecanesulfonic acid (PFDS)	ND		.20	.039	ug/Kg		9/20 15:20	10:29	
Perfluorooctanesulfonamide (FOSA)	ND		.20	.082	ug/Kg		9/20 15:20	10:29	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.0	.39	ug/Kg		9/20 15:20	10:29	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.0	.37	ug/Kg		9/20 15:20	10:29	
:2 FTS	ND		.0	.15	ug/Kg		9/20 15:20	10:29	
8:2 FTS	ND		.0	.25	ug/Kg		9/20 15:20	10:29	

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA			- 150	11/09/20 15:20	11/11/20 10:29	1
13C5 PFPeA	82		- 150	11/09/20 15:20	11/11/20 10:29	1
13C2 PFHxA	88		- 150	11/09/20 15:20	11/11/20 10:29	1
13C4 PFHpA	99		- 150	11/09/20 15:20	11/11/20 10:29	1
13C4 PFOA	93		- 150	11/09/20 15:20	11/11/20 10:29	1
13C5 PFNA	89		- 150	11/09/20 15:20	11/11/20 10:29	1
13C2 PFDA	89		- 150	11/09/20 15:20	11/11/20 10:29	1
13C2 PFUnA	88		- 150	11/09/20 15:20	11/11/20 10:29	1
13C2 PFDoA	91		- 150	11/09/20 15:20	11/11/20 10:29	1
13C2 PFTeDA	88		- 150	11/09/20 15:20	11/11/20 10:29	1
13C3 PFBS	86		- 150	11/09/20 15:20	11/11/20 10:29	1
18O2 PFHxS	90		- 150	11/09/20 15:20	11/11/20 10:29	1
13C4 PFOS	88		- 150	11/09/20 15:20	11/11/20 10:29	1
13C8 FOSA	85		- 150	11/09/20 15:20	11/11/20 10:29	1
d3-NMeFOSAA	8		- 150	11/09/20 15:20	11/11/20 10:29	1
-NEtFOSAA			- 150	11/09/20 15:20	11/11/20 10:29	1
M2-6:2 FTS	84		- 150	11/09/20 15:20	11/11/20 10:29	1
M2-8:2 FTS	81		- 150	11/09/20 15:20	11/11/20 10:29	1

Lab Sample ID: LCS 320-429933/2-A

Matrix: Solid

Analysis Batch: 430542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 429933

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	.00	.31		ug/Kg		5	76 36
Perfluoropentanoic acid (PFPeA)	.00	.10		ug/Kg		5	9 9
Perfluorohexanoic acid (PFHxA)	.00	.20		ug/Kg			71 31
Perfluoroheptanoic acid (PFHpA)	.00	.12		ug/Kg			71 31
Perfluorooctanoic acid (PFOA)	.00	.02		ug/Kg			72 32

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: LCS 320-429933/2-A

Matrix: Solid

Analysis Batch: 430542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 429933

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Perfluorononanoic acid (PFNA)	.00	.30		ug/Kg		5	73	33
Perfluorodecanoic acid (PFDA)	.00	.27		ug/Kg		4	72	32
Perfluoroundecanoic acid (PFUnA)	.00	.28		ug/Kg		4		
Perfluorododecanoic acid (PFDoA)	.00	.22		ug/Kg			71	31
Perfluorotridecanoic acid (PFTriA)	.00	.25		ug/Kg			71	31
Perfluorotetradecanoic acid (PFTeA)	.00	.32		ug/Kg			7	7
Perfluorobutanesulfonic acid (PFBS)	.77	.04		ug/Kg		5	9	9
Perfluorohexanesulfonic acid (PFHxS)	.82	.88		ug/Kg		3		
Perfluoroheptanesulfonic Acid (PFHpS)	.90	.17		ug/Kg		4	76	36
Perfluorooctanesulfonic acid (PFOS)	.86	.47		ug/Kg		33	8	41
Perfluorodecanesulfonic acid (PFDS)	.93	.20		ug/Kg		4	71	31
Perfluorooctanesulfonamide (FOSA)	.00	.30		ug/Kg		5	77	37
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	.00	.17		ug/Kg		8	72	32
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	.00	.28		ug/Kg		4	72	32
:2 FTS	.90	.87	J	ug/Kg		99	73	39
8:2 FTS	.92	.29		ug/Kg		9	75	35

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	4		- 150
13C5 PFPeA	9		- 150
13C2 PFHxA	89		- 150
13C4 PFHpA	95		- 150
13C4 PFOA	92		- 150
13C5 PFNA	87		- 150
13C2 PFDA	88		- 150
13C2 PFUnA	90		- 150
13C2 PFDoA	86		- 150
13C2 PFTeDA	83		- 150
13C3 PFBS	82		- 150
18O2 PFHxS	87		- 150
13C4 PFOS	83		- 150
13C8 FOSA	83		- 150
d3-NMeFOSAA	3		- 150
-NEtFOSAA			- 150
M2-6:2 FTS	86		- 150
M2-8:2 FTS			- 150

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

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

Lab Sample ID: 460-221262-24 MS

Matrix: Solid

Analysis Batch: 430542

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 429933

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS) - RE	.9	H B	.26	5.61	H B	ug/Kg	✱		8 141
Perfluorodecanesulfonic acid (PFDS) - RE	.20	J H	.35	.98	H	ug/Kg	✱	8	71 31
MS MS									
Isotope Dilution	%Recovery	Qualifier	Limits						
13C4 PFOS - RE	81		- 150						

Lab Sample ID: 460-221262-24MSD

Matrix: Solid

Analysis Batch: 430542

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 429933

Analyte	Sample It	Sample Qualifier	Spike Added	MSD It	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	PD Limit
Perfluorooctanesulfonic acid (PFOS) - RE	.9	H B	.28	5.70	H B	ug/Kg	✱	23	68 141	3
Perfluorodecanesulfonic acid (PFDS) - RE	.20	J H	.37	.92	H	ug/Kg	✱	15	71 131	30
MSD MSD										
Isotope Dilution	%Recovery	Qualifier	Limits							
13C4 PFOS - RE	9		- 150							

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 460-734596/1-A

Matrix: Water

Analysis Batch: 734898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 734596

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND			76.9	ug/L		4/20 20:00	16:09	
Antimony	ND		.0	3.7	ug/L		4/20 20:00	16:09	
Arsenic	ND		5.0	3.3	ug/L		4/20 20:00	16:09	
Barium	ND			3.2	ug/L		4/20 20:00	16:09	
Beryllium	ND		.0	.17	ug/L		4/20 20:00	16:09	
Cadmium	ND		4.0	.33	ug/L		4/20 20:00	16:09	
Calcium	ND		5000	52	ug/L		4/20 20:00	16:09	
Chromium	ND		.0	5.0	ug/L		4/20 20:00	16:09	
Cobalt	ND		50.0	.0	ug/L		4/20 20:00	16:09	
Copper	ND		5.0	.9	ug/L		4/20 20:00	16:09	
Iron	ND		50	80.8	ug/L		4/20 20:00	16:09	
Lead	ND		.0	.4	ug/L		4/20 20:00	16:09	
Magnesium	ND		5000	42	ug/L		4/20 20:00	16:09	
Manganese	ND		5.0	.76	ug/L		4/20 20:00	16:09	
Nickel	ND		40.0	4.1	ug/L		4/20 20:00	16:09	
Potassium	ND		5000	42	ug/L		4/20 20:00	16:09	
Selenium	ND		.0	5.9	ug/L		4/20 20:00	16:09	
Silver	ND		.0	5.8	ug/L		4/20 20:00	16:09	
Sodium	ND		5000	83.8	ug/L		4/20 20:00	16:09	
Thallium	ND		.0	4.1	ug/L		4/20 20:00	16:09	
Vanadium	ND		50.0	7.2	ug/L		4/20 20:00	16:09	
Zinc	ND		30.0	.2	ug/L		4/20 20:00	16:09	

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 460-734596/2-A
Matrix: Water
Analysis Batch: 734898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734596

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum				ug/L			80
Antimony	500	473.7		ug/L		95	80
Arsenic		85		ug/L		4	80
Barium		33		ug/L			80
Beryllium	50.0	49.74		ug/L		99	80
Cadmium	50.0	52.05		ug/L		4	80
Calcium		80		ug/L			80
Chromium		8.3		ug/L		4	80
Cobalt	500	522.5		ug/L		5	80
Copper	50	54.6		ug/L			80
Iron		47		ug/L		5	80
Lead	500	519.4		ug/L		4	80
Magnesium		510		ug/L		3	80
Manganese	500	516.4		ug/L		3	80
Nickel	500	520.1		ug/L		4	80
Potassium		9230		ug/L		96	80
Selenium				ug/L			80
Silver	50.0	51.99		ug/L		4	80
Sodium		9290		ug/L		96	80
Thallium		9		ug/L		3	80
Vanadium	500	521.1		ug/L		4	80
Zinc	500	518.6		ug/L		4	80

Lab Sample ID: MB 460-735373/1-A ^2
Matrix: Solid
Analysis Batch: 735504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735373

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40.0	5.7	mg/Kg		8/20 02:35	8/20 17:54	
Antimony	ND		4.0	.2	mg/Kg		8/20 02:35	8/20 17:54	
Arsenic	ND		3.0	.62	mg/Kg		8/20 02:35	8/20 17:54	
Barium	ND		40.0	3.9	mg/Kg		8/20 02:35	8/20 17:54	
Beryllium	ND		.40	.064	mg/Kg		8/20 02:35	8/20 17:54	
Cadmium	ND		.80	.069	mg/Kg		8/20 02:35	8/20 17:54	
Calcium	ND			73.9	mg/Kg		8/20 02:35	8/20 17:54	
Chromium	ND		.0	.4	mg/Kg		8/20 02:35	8/20 17:54	
Cobalt	ND		.0	.55	mg/Kg		8/20 02:35	8/20 17:54	
Copper	ND		5.0	.3	mg/Kg		8/20 02:35	8/20 17:54	
Iron	ND		30.0	.6	mg/Kg		8/20 02:35	8/20 17:54	
Lead	ND		.0	.32	mg/Kg		8/20 02:35	8/20 17:54	
Magnesium	ND			7.7	mg/Kg		8/20 02:35	8/20 17:54	
Manganese	ND		3.0	.23	mg/Kg		8/20 02:35	8/20 17:54	
Nickel	ND		8.0	.53	mg/Kg		8/20 02:35	8/20 17:54	
Potassium	ND			.4	mg/Kg		8/20 02:35	8/20 17:54	
Selenium	ND		4.0	.68	mg/Kg		8/20 02:35	8/20 17:54	
Silver	ND		.0	.1	mg/Kg		8/20 02:35	8/20 17:54	
Sodium	ND			87.0	mg/Kg		8/20 02:35	8/20 17:54	
Thallium	ND		4.0	.62	mg/Kg		8/20 02:35	8/20 17:54	
Vanadium	ND		.0	.93	mg/Kg		8/20 02:35	8/20 17:54	

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 460-735373/1-A ^2
Matrix: Solid
Analysis Batch: 735504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735373

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		.0	.1	mg/Kg		8/20 02:35	8/20 17:54	

Lab Sample ID: LCSSRM 460-735373/2-A ^2
Matrix: Solid
Analysis Batch: 735504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735373

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8460	7406		mg/Kg		87.5	50.4 50.
Antimony		78.50		mg/Kg		5.4	4.8 95.
Arsenic	95.5	93.84		mg/Kg		98.3	82.8 7. 3
Barium	300	95.0		mg/Kg		98.3	82.3 7. 7
Beryllium	3	.2		mg/Kg		97.3	82.8 . 5
Cadmium	35	32.8		mg/Kg		98.4	83.0 7. 8
Calcium	4720	4520		mg/Kg		95.8	81.6 8.
Chromium	47	42.7		mg/Kg		97.1	82.3 7. 7
Cobalt	43.2	43.48		mg/Kg		.6	83.8 .
Copper	50	48.4		mg/Kg		99.0	84.0 .
Iron	4400	4030		mg/Kg		97.4	.3 38. 9
Lead	92.3	92.38		mg/Kg		.1	83.1 7.
Magnesium	300	70		mg/Kg		94.3	75.7 4. 3
Manganese	77	59.4		mg/Kg		97.4	82.0 8.
Nickel	59.8	59.86		mg/Kg		.1	82.6 7.
Potassium	30	946		mg/Kg		95.9	70.0 30.
Selenium	42.0	41.04		mg/Kg		97.7	79.5 . 5
Silver	40.3	37.72		mg/Kg		93.6	80.6 9. 4
Sodium	39	32.8 J		mg/Kg		95.5	71.9 7. 3
Thallium	83.1	85.54		mg/Kg		.9	81.0 9.
Vanadium	96.9	94.72		mg/Kg		97.8	79.2 . 7
Zinc	369	357.6		mg/Kg		96.9	80.8 9.

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 460-221262-6 MS

Matrix: Solid

Analysis Batch: 735504

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735373

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	3100		55	5950	4	mg/Kg	✱	36	75 5
Antimony	ND	F1	3.7	8.42	F1	mg/Kg	✱	45	75 5
Arsenic	5.1		55	47.1		mg/Kg	✱	95	75 5
Barium			55	379.8		mg/Kg	✱	5	75 5
Beryllium	.56		.37	.80		mg/Kg	✱	98	75 5
Cadmium	.57	J	.37	.70		mg/Kg	✱	96	75 5
Calcium			550	4583		mg/Kg	✱	95	75 5
Chromium	.9		5.5	42.70		mg/Kg	✱		75 5
Cobalt	7.9	J	3.7	70.66		mg/Kg	✱	98	75 5
Copper	.2		31.9	51.87		mg/Kg	✱	93	75 5
Iron	3300		7	4580	4	mg/Kg	✱	972	75 5
Lead	.1		3.7	84.07		mg/Kg	✱		75 5
Magnesium	4330		550	783		mg/Kg	✱	96	75 5
Manganese	893		3.7		4	mg/Kg	✱	579	75 5
Nickel	9.6		3.7	83.12		mg/Kg	✱		75 5
Potassium	70	J	550	3678		mg/Kg	✱	99	75 5
Selenium	ND		55	35.2		mg/Kg	✱	92	75 5
Silver	ND		.37	5.90		mg/Kg	✱	93	75 5
Sodium	512	J	550	3069		mg/Kg	✱		75 5
Thallium	ND		55	50.6		mg/Kg	✱	98	75 5
Vanadium	.2		3.7	86.54		mg/Kg	✱		75 5
Zinc			3.7	77.4		mg/Kg	✱		75 5

Lab Sample ID: 460-221262-6 DU

Matrix: Solid

Analysis Batch: 735504

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735373

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	Limit
Aluminum	3100		3320		mg/Kg	✱		
Antimony	ND	F1	ND		mg/Kg	✱		NC
Arsenic	5.1		4.87		mg/Kg	✱		5
Barium			4.9		mg/Kg	✱		
Beryllium	.56		.61		mg/Kg	✱		8
Cadmium	.57	J	.546	J	mg/Kg	✱		4
Calcium			876		mg/Kg	✱		4
Chromium	.9		.43		mg/Kg	✱		3
Cobalt	7.9	J	8.28	J	mg/Kg	✱		4
Copper	.2		3.86		mg/Kg	✱		7
Iron	3300		590		mg/Kg	✱		3
Lead	.1		3.23		mg/Kg	✱		4
Magnesium	4330		3984		mg/Kg	✱		8
Manganese	893		99	F3	mg/Kg	✱		
Nickel	9.6		9.90		mg/Kg	✱		
Potassium	70	J	3	J	mg/Kg	✱		3
Selenium	ND		ND		mg/Kg	✱		NC
Silver	ND		ND		mg/Kg	✱		NC
Sodium	512	J	536.8	J	mg/Kg	✱		5
Thallium	ND		ND		mg/Kg	✱		NC
Vanadium	.2		.29		mg/Kg	✱		.5

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 460-221262-6 DU

Matrix: Solid

Analysis Batch: 735504

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735373

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	Limit
Zinc			5.1		mg/Kg	*	72	

Lab Sample ID: MB 460-735879/1-A ^2

Matrix: Solid

Analysis Batch: 736162

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 735879

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40.0	5.7	mg/Kg		9/20 15:00	30/20 1 :43	
Antimony	ND		4.0	.2	mg/Kg		9/20 15:00	30/20 1 :43	
Arsenic	ND		3.0	.62	mg/Kg		9/20 15:00	30/20 1 :43	
Barium	ND		40.0	3.9	mg/Kg		9/20 15:00	30/20 1 :43	
Beryllium	ND		.40	.064	mg/Kg		9/20 15:00	30/20 1 :43	
Cadmium	ND		.80	.069	mg/Kg		9/20 15:00	30/20 1 :43	
Calcium	ND			73.9	mg/Kg		9/20 15:00	30/20 1 :43	
Chromium	ND		.0	.4	mg/Kg		9/20 15:00	30/20 1 :43	
Cobalt	ND		.0	.55	mg/Kg		9/20 15:00	30/20 1 :43	
Copper	ND		5.0	.3	mg/Kg		9/20 15:00	30/20 1 :43	
Iron	ND		30.0	.6	mg/Kg		9/20 15:00	30/20 1 :43	
Lead	ND		.0	.32	mg/Kg		9/20 15:00	30/20 1 :43	
Magnesium	ND			7.7	mg/Kg		9/20 15:00	30/20 1 :43	
Manganese	ND		3.0	.23	mg/Kg		9/20 15:00	30/20 1 :43	
Nickel	ND		8.0	.53	mg/Kg		9/20 15:00	30/20 1 :43	
Potassium	ND			.4	mg/Kg		9/20 15:00	30/20 1 :43	
Selenium	ND		4.0	.68	mg/Kg		9/20 15:00	30/20 1 :43	
Silver	ND		.0	.1	mg/Kg		9/20 15:00	30/20 1 :43	
Sodium	ND			87.0	mg/Kg		9/20 15:00	30/20 1 :43	
Thallium	ND		4.0	.62	mg/Kg		9/20 15:00	30/20 1 :43	
Vanadium	ND		.0	.93	mg/Kg		9/20 15:00	30/20 1 :43	
Zinc	ND		.0	.1	mg/Kg		9/20 15:00	30/20 1 :43	

Lab Sample ID: LCSSRM 460-735879/2-A ^2

Matrix: Solid

Analysis Batch: 736162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 735879

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8460	7294		mg/Kg		86.2	50.4 50.
Antimony		77.36		mg/Kg		4.5	4.8 95.
Arsenic	95.5	91.58		mg/Kg		95.9	82.8 7.3
Barium	300	81.2		mg/Kg		93.7	82.3 7.7
Beryllium	3	96.96		mg/Kg		94.1	82.8 .5
Cadmium	35	31.1		mg/Kg		97.1	83.0 7.8
Calcium	4720	4578		mg/Kg		97.0	81.6 8.
Chromium	47	38.5		mg/Kg		94.2	82.3 7.7

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 460-735879/2-A ^2

Matrix: Solid

Analysis Batch: 736162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 735879

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	43.2	42.16		mg/Kg		97.6	83.8
Copper	50	45.6		mg/Kg		97.1	84.0
Iron	4400	4200		mg/Kg		98.6	.3 38.9
Lead	92.3	89.12		mg/Kg		96.6	83.1 7.
Magnesium	300	34		mg/Kg		92.8	75.7 4.3
Manganese	77	71.2		mg/Kg		99.1	82.0 8.
Nickel	59.8	59.70		mg/Kg		99.8	82.6 7.
Potassium	30	868		mg/Kg		92.0	70.0 30.
Selenium	42.0	41.16		mg/Kg		98.0	79.5 .5
Silver	40.3	36.60		mg/Kg		90.8	80.6 9.4
Sodium	39	9.9 J		mg/Kg		86.2	71.9 7.3
Thallium	83.1	85.18		mg/Kg		.5	81.0 9.
Vanadium	96.9	91.90		mg/Kg		94.8	79.2 .7
Zinc	369	358.8		mg/Kg		97.2	80.8 9.

Lab Sample ID: 460-221262-24 MS

Matrix: Solid

Analysis Batch: 736162

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735879

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	300		91	70	4	mg/Kg	⊛	389	75 5
Antimony	ND	F1	47.7	5.48	F1	mg/Kg	⊛	32	75 5
Arsenic	7.8		91	86.5		mg/Kg	⊛	94	75 5
Barium	3		91	75.0		mg/Kg	⊛	90	75 5
Beryllium	.45		4.77	4.89		mg/Kg	⊛	93	75 5
Cadmium	.15	J	4.77	4.67		mg/Kg	⊛	95	75 5
Calcium	4120		910	5729		mg/Kg	⊛	84	75 5
Chromium	.4		9.1	36.55		mg/Kg	⊛	5	75 5
Cobalt	8.4	J	47.7	53.18		mg/Kg	⊛	94	75 5
Copper	9.1		3.9	51.26		mg/Kg	⊛	93	75 5
Iron	9700		95.5	9340	4	mg/Kg	⊛	334	75 5
Lead	36.5		47.7	88.70		mg/Kg	⊛	9	75 5
Magnesium	3630		910	5446		mg/Kg	⊛	95	75 5
Manganese	441		47.7	474.4	4	mg/Kg	⊛	9	75 5
Nickel	9.3		47.7	4.95		mg/Kg	⊛	96	75 5
Potassium	520		910	3199		mg/Kg	⊛	88	75 5
Selenium	.80	J	91	75.9		mg/Kg	⊛	92	75 5
Silver	ND		4.77	4.29		mg/Kg	⊛	90	75 5

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 460-221262-24 MS

Matrix: Solid

Analysis Batch: 736162

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735879

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sodium	3	J	910	903		mg/Kg	✖	94	75	5
Thallium	.86	J	91	85.4		mg/Kg	✖	97	75	5
Vanadium	.1		47.7	70.54		mg/Kg	✖	93	75	5
Zinc			47.7	54.3		mg/Kg	✖	89	75	5

Lab Sample ID: 460-221262-24 DU

Matrix: Solid

Analysis Batch: 736162

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735879

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	Limit
Aluminum	300		510		mg/Kg	✖		
Antimony	ND	F1	ND		mg/Kg	✖	NC	
Arsenic	7.8		7.66		mg/Kg	✖		
Barium	3		99.58		mg/Kg	✖	3	
Beryllium	.45		.456		mg/Kg	✖		
Cadmium	.15	J	.159	J	mg/Kg	✖	3	
Calcium	4120		4024		mg/Kg	✖		
Chromium	.4		.22		mg/Kg	✖		
Cobalt	8.4	J	8.39	J	mg/Kg	✖	.2	
Copper	9.1		8.41		mg/Kg	✖		
Iron	9700		9750		mg/Kg	✖	.4	
Lead	36.5		37.66		mg/Kg	✖	3	
Magnesium	3630		3799		mg/Kg	✖	5	
Manganese	441		426.6		mg/Kg	✖	3	
Nickel	9.3		9.48		mg/Kg	✖	.8	
Potassium	520		480		mg/Kg	✖	3	
Selenium	.80	J	.01	J F5	mg/Kg	✖	3	
Silver	ND		ND		mg/Kg	✖	NC	
Sodium	3	J	9.9	J	mg/Kg	✖	3	
Thallium	.86	J	ND		mg/Kg	✖	NC	
Vanadium	.1		.1		mg/Kg	✖	.07	
Zinc			.5		mg/Kg	✖	.5	

Lab Sample ID: MB 460-736461/1-A ^2

Matrix: Solid

Analysis Batch: 737066

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 736461

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40.0	5.7	mg/Kg		31/20 16:58	3/20 17:58	
Antimony	ND		4.0	.2	mg/Kg		31/20 16:58	3/20 17:58	
Arsenic	ND		3.0	.62	mg/Kg		31/20 16:58	3/20 17:58	
Barium	ND		40.0	3.9	mg/Kg		31/20 16:58	3/20 17:58	
Beryllium	ND		.40	.064	mg/Kg		31/20 16:58	3/20 17:58	
Cadmium	ND		.80	.069	mg/Kg		31/20 16:58	3/20 17:58	
Calcium	ND			73.9	mg/Kg		31/20 16:58	3/20 17:58	
Chromium	ND		.0	.4	mg/Kg		31/20 16:58	3/20 17:58	
Cobalt	ND		.0	.55	mg/Kg		31/20 16:58	3/20 17:58	
Copper	ND		5.0	.3	mg/Kg		31/20 16:58	3/20 17:58	
Iron	ND		30.0	.6	mg/Kg		31/20 16:58	3/20 17:58	

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 460-736461/1-A ^2
Matrix: Solid
Analysis Batch: 737066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 736461

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		.0	.32	mg/Kg		31/20 16:58	3/20 17:58	
Magnesium	ND			7.7	mg/Kg		31/20 16:58	3/20 17:58	
Manganese	ND		3.0	.23	mg/Kg		31/20 16:58	3/20 17:58	
Nickel	ND		8.0	.53	mg/Kg		31/20 16:58	3/20 17:58	
Potassium	ND			.4	mg/Kg		31/20 16:58	3/20 17:58	
Selenium	ND		4.0	.68	mg/Kg		31/20 16:58	3/20 17:58	
Silver	ND		.0	.1	mg/Kg		31/20 16:58	3/20 17:58	
Sodium	ND			87.0	mg/Kg		31/20 16:58	3/20 17:58	
Thallium	ND		4.0	.62	mg/Kg		31/20 16:58	3/20 17:58	
Vanadium	ND		.0	.93	mg/Kg		31/20 16:58	3/20 17:58	
Zinc	ND		.0	.1	mg/Kg		31/20 16:58	3/20 17:58	

Lab Sample ID: LCSSRM 460-736461/2-A ^2
Matrix: Solid
Analysis Batch: 737066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 736461

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8460	8051		mg/Kg		95.2	50.4 50.
Antimony		74.34		mg/Kg		.9	4.8 95.
Arsenic	95.5	96.34		mg/Kg		.9	82.8 7. 3
Barium	300	304.0		mg/Kg		.3	82.3 7. 7
Beryllium	3	.0		mg/Kg		7.8	82.8 . 5
Cadmium	35	37.6		mg/Kg		.9	83.0 7. 8
Calcium	4720	5065		mg/Kg		7.3	81.6 8.
Chromium	47	49.3		mg/Kg		.6	82.3 7. 7
Cobalt	43.2	45.23		mg/Kg		4.7	83.8 .
Copper	50	55.7		mg/Kg		3.8	84.0 .
Iron	4400	5330		mg/Kg		.5	.3 38. 9
Lead	92.3	95.05		mg/Kg		3.0	83.1 7.
Magnesium	300	370		mg/Kg		3.1	75.7 4. 3
Manganese	77	88.7		mg/Kg		.7	82.0 8.
Nickel	59.8	.14		mg/Kg		3.9	82.6 7.
Potassium	30	85		mg/Kg		.7	70.0 30.
Selenium	42.0	42.69		mg/Kg		.7	79.5 . 5
Silver	40.3	41.39		mg/Kg		.7	80.6 9. 4

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 460-736461/2-A ^2
Matrix: Solid
Analysis Batch: 737066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 736461

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	39	30.6	J	mg/Kg		93.9	71.9 7.3
Thallium	83.1	89.86		mg/Kg		8.1	81.0 9.
Vanadium	96.9	5.9		mg/Kg		9.3	79.2 .7
Zinc	369	374.5		mg/Kg		.5	80.8 9.

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-735508/1-A
Matrix: Water
Analysis Batch: 735551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735508

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		.20	.091	ug/L		8/20 12:28	8/20 13:38	

Lab Sample ID: LCS 460-735508/2-A
Matrix: Water
Analysis Batch: 735551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735508

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	.00	.05		ug/L		5	80

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-735378/10-A
Matrix: Solid
Analysis Batch: 735489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735378

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		.017	.0040	mg/Kg		8/20 02:58	8/20 06:18	

Lab Sample ID: LCSSRM 460-735378/11-A ^40
Matrix: Solid
Analysis Batch: 735489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735378

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	8.4	8.34		mg/Kg		99.7	.9 38.

Lab Sample ID: 460-221262-24 MS
Matrix: Solid
Analysis Batch: 735489

Client Sample ID: S9B-SOIL-102120
Prep Type: Total/NA
Prep Batch: 735378

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	.068		.105	.181		mg/Kg	☼	8	80

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-221262-24 DU

Matrix: Solid

Analysis Batch: 735489

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735378

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	PD Limit
Mercury	.068		.0744		mg/Kg	✱	92	

Lab Sample ID: MB 460-735383/1-A

Matrix: Solid

Analysis Batch: 735489

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 735383

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		.017	.0040	mg/Kg		8/20 03:25	8/20 07:15	

Lab Sample ID: LCSSRM 460-735383/2-A ^40

Matrix: Solid

Analysis Batch: 735489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 735383

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	Limits
Mercury	8.4	8.29		mg/Kg		99.4	.9 38.

Lab Sample ID: MB 460-735386/1-A

Matrix: Solid

Analysis Batch: 735489

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 735386

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		.017	.0040	mg/Kg		8/20 03:49	8/20 08:17	

Lab Sample ID: LCSSRM 460-735386/2-A ^40

Matrix: Solid

Analysis Batch: 735489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 735386

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	Limits
Mercury	8.4	9.21		mg/Kg		4.4	.9 38.

Lab Sample ID: 460-221262-6 MS

Matrix: Solid

Analysis Batch: 735489

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735386

Analyte	Sample It	Sample Qualifier	Spike Added	MS It	MS Qualifier	Unit	D	%Rec	Limits
Mercury	.039		.104	.153		mg/Kg	✱		80

Lab Sample ID: 460-221262-6 DU

Matrix: Solid

Analysis Batch: 735489

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735386

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	PD Limit
Mercury	.039		.0443		mg/Kg	✱	4	

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 460-736624/10-A
Matrix: Solid
Analysis Batch: 736715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 736624

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		.017	.0040	mg/Kg		02:55	06:19	

Lab Sample ID: LCSSRM 460-736624/11-A ^40
Matrix: Solid
Analysis Batch: 736715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 736624

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	8.4	8.34		mg/Kg		99.7	.9 38.

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-734239/9
Matrix: Water
Analysis Batch: 734239

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

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.0	8.1	ug/L			3/20 12:50	

Lab Sample ID: LCSSRM 460-734239/10
Matrix: Water
Analysis Batch: 734239

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

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	77.8	75.57		ug/L		97.1	84.2 4. 5

Lab Sample ID: MB 460-735779/1-A
Matrix: Solid
Analysis Batch: 736100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735779

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.0	.35	mg/Kg		9/20 09:04	30/20 1 :13	

Lab Sample ID: LCSi 460-735779/3-A
Matrix: Solid
Analysis Batch: 736100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735779

Analyte	Spike Added	LCSi It	LCSi Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	708	761.6		mg/Kg		8	80

Lab Sample ID: LCSSRM 460-735779/2-A
Matrix: Solid
Analysis Batch: 736100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735779

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	5.6	4.69		mg/Kg		94.4	84.2 4. 5

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 460-221262-6 MSI

Matrix: Solid

Analysis Batch: 736100

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735779

Analyte	Sample It	Sample Qualifier	Spike Added	MSI It	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND	F1	902	48.9	F1	mg/Kg	✱	8	75 5

Lab Sample ID: 460-221262-6 MSS

Matrix: Solid

Analysis Batch: 736100

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735779

Analyte	Sample It	Sample Qualifier	Spike Added	MSS It	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND	F1	51.0	.94	F1	mg/Kg	✱	33	75 5

Lab Sample ID: 460-221262-24 MSI

Matrix: Solid

Analysis Batch: 736100

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735779

Analyte	Sample It	Sample Qualifier	Spike Added	MSI It	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND	F1	919	47.1	F1	mg/Kg	✱	7	75 5

Lab Sample ID: 460-221262-24 MSS

Matrix: Solid

Analysis Batch: 736100

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735779

Analyte	Sample It	Sample Qualifier	Spike Added	MSS It	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND	F1	51.9	5.46	F1	mg/Kg	✱	30	75 5

Lab Sample ID: 460-221262-6 DU

Matrix: Solid

Analysis Batch: 736100

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735779

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	Limit
Chromium, hexavalent	ND	F1	ND		mg/Kg	✱	NC	

Lab Sample ID: 460-221262-24 DU

Matrix: Solid

Analysis Batch: 736100

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 735779

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	Limit
Chromium, hexavalent	ND	F1	ND		mg/Kg	✱	NC	

Lab Sample ID: MB 460-735855/1-A

Matrix: Solid

Analysis Batch: 736102

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 735855

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.0	.35	mg/Kg		9/20 13:45	31/20 1 :24	

Lab Sample ID: LCS1 460-735855/3-A

Matrix: Solid

Analysis Batch: 736102

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 735855

Analyte	Spike Added	LCS1 It	LCS1 Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	708	763.5		mg/Kg		8	80

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: LCSSRM 460-735855/2-A
Matrix: Solid
Analysis Batch: 736102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735855

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	5.6	5.67		mg/Kg		.7	84.2 4.5

Lab Sample ID: MB 460-736559/1-A
Matrix: Solid
Analysis Batch: 736763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 736559

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.0	.35	mg/Kg		12:08	13:13	

Lab Sample ID: LCSi 460-736559/3-A
Matrix: Solid
Analysis Batch: 736763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 736559

Analyte	Spike Added	LCSi It	LCSi Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	708	774.1		mg/Kg		9	80

Lab Sample ID: LCSSRM 460-736559/2-A
Matrix: Solid
Analysis Batch: 736763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 736559

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	5.6	4.24		mg/Kg		91.5	84.2 4.5

Lab Sample ID: 460-221262-6 MSI
Matrix: Solid
Analysis Batch: 736763

Client Sample ID: S13-SOIL-102120
Prep Type: Total/NA
Prep Batch: 736559

Analyte	Sample It	Sample Qualifier	Spike Added	MSI It	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND	F1	902	92.4	F1	mg/Kg	✱	32	75 5

Lab Sample ID: 460-221262-6 MSS
Matrix: Solid
Analysis Batch: 736763

Client Sample ID: S13-SOIL-102120
Prep Type: Total/NA
Prep Batch: 736559

Analyte	Sample It	Sample Qualifier	Spike Added	MSS It	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND	F1	51.0	.76	F1	mg/Kg	✱	45	75 5

Lab Sample ID: 460-221262-24 MSI
Matrix: Solid
Analysis Batch: 736763

Client Sample ID: S9B-SOIL-102120
Prep Type: Total/NA
Prep Batch: 736559

Analyte	Sample It	Sample Qualifier	Spike Added	MSI It	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND	F1	908	37.2	F1	mg/Kg	✱		75 5

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 460-221262-24 MSS

Matrix: Solid

Analysis Batch: 736763

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 736559

Analyte	Sample It	Sample Qualifier	Spike Added	MSS It	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND	F1	51.5	9.18	F1	mg/Kg	✱	37	75 5

Lab Sample ID: 460-221262-6 DU

Matrix: Solid

Analysis Batch: 736763

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Prep Batch: 736559

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	Limit
Chromium, hexavalent	ND	F1	ND		mg/Kg	✱	NC	

Lab Sample ID: 460-221262-24 DU

Matrix: Solid

Analysis Batch: 736763

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Prep Batch: 736559

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	Limit
Chromium, hexavalent	ND	F1	ND		mg/Kg	✱	NC	

Lab Sample ID: MB 460-736963/1-A

Matrix: Solid

Analysis Batch: 736986

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 736963

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		.0	.35	mg/Kg		3/20 07:39	3/20 14:40	

Lab Sample ID: LCS1 460-736963/3-A

Matrix: Solid

Analysis Batch: 736986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 736963

Analyte	Spike Added	LCS1 It	LCS1 Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	708	735.0		mg/Kg		4	80

Lab Sample ID: LCSSRM 460-736963/2-A

Matrix: Solid

Analysis Batch: 736986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 736963

Analyte	Spike Added	LCSSRM It	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	5.6	5.55		mg/Kg		99.9	84.2 4.5

Method: Moisture - Percent Moisture

Lab Sample ID: 460-221262-4 DU

Matrix: Solid

Analysis Batch: 735208

Client Sample ID: S15-SOIL-102120

Prep Type: Total/NA

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	Limit
Percent Moisture	37.3		31.2		%		8	
Percent Moisture	37.3		31.2		%		8	
Percent Solids	.7		8.8		%		9	
Percent Solids	.7		8.8		%		9	

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 460-221262-6 DU

Matrix: Solid

Analysis Batch: 735208

Client Sample ID: S13-SOIL-102120

Prep Type: Total/NA

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	PD Limit
Percent Moisture	.5		.5		%			
Percent Solids	78.5		78.5		%			

Lab Sample ID: 460-221262-23 DU

Matrix: Solid

Analysis Batch: 735216

Client Sample ID: S9A-SOIL-102120

Prep Type: Total/NA

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	PD Limit
Percent Moisture	5.2		5.6		%			
Percent Solids	74.8		74.4		%		.6	

Lab Sample ID: 460-221262-24 DU

Matrix: Solid

Analysis Batch: 735216

Client Sample ID: S9B-SOIL-102120

Prep Type: Total/NA

Analyte	Sample It	Sample Qualifier	DU It	DU Qualifier	Unit	D	PD	PD Limit
Percent Moisture	3.0		3.0		%			
Percent Solids	77.0		77.0		%			

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

LCMS

Prep Batch: 426004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-2	TB1-102120	Total/NA	Water	3535	
460-221262-16	TB2-102120	Total/NA	Water	3535	
460-221262-25	Equipment Blank 102120	Total/NA	Water	3535	
460-221262-26	Field Blank 102120	Total/NA	Water	3535	
MB 320-426004/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-426004/2-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 426094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-12	S1 SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-13	S12-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-15	S1-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	SHAKE	
MB 320-426094/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-426094/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
460-221262-12 MS	S1 SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-12 MSD	S1 SOIL-102120	Total/NA	Solid	SHAKE	

Prep Batch: 426095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-27	S5-Soil-102120	Total/NA	Solid	SHAKE	
460-221262-28	S10-Soil-102120	Total/NA	Solid	SHAKE	
MB 320-426095/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-426095/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
460-221262-24 MS	S9B-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-24MSD	S9B-SOIL-102120	Total/NA	Solid	SHAKE	

Analysis Batch: 426308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-2	TB1-102120	Total/NA	Water	537 (modified)	426004
460-221262-16	TB2-102120	Total/NA	Water	537 (modified)	426004
460-221262-25	Equipment Blank 102120	Total/NA	Water	537 (modified)	426004
460-221262-26	Field Blank 102120	Total/NA	Water	537 (modified)	426004
MB 320-426004/1-A	Method Blank	Total/NA	Water	537 (modified)	426004
LCS 320-426004/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	426004

Prep Batch: 426801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	SHAKE	
MB 320-426801/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-426801/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
460-221262-9 MS	DUP1-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-9 MSD	DUP1-SOIL-102120	Total/NA	Solid	SHAKE	

Eurofins TestAmerica, Edison

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

LCMS

Analysis Batch: 427153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	537 (modified)	426095
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	537 (modified)	426095
460-221262-27	S5-Soil-102120	Total/NA	Solid	537 (modified)	426095
460-221262-28	S10-Soil-102120	Total/NA	Solid	537 (modified)	426095
MB 320-426095/1-A	Method Blank	Total/NA	Solid	537 (modified)	426095
LCS 320-426095/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	426095
460-221262-24 MS	S9B-SOIL-102120	Total/NA	Solid	537 (modified)	426095
460-221262-24MSD	S9B-SOIL-102120	Total/NA	Solid	537 (modified)	426095

Analysis Batch: 427508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-12	S1 SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-13	S12-SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-15	S1-SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	537 (modified)	426094
MB 320-426094/1-A	Method Blank	Total/NA	Solid	537 (modified)	426094
LCS 320-426094/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	426094
460-221262-12 MS	S1 SOIL-102120	Total/NA	Solid	537 (modified)	426094
460-221262-12 MSD	S1 SOIL-102120	Total/NA	Solid	537 (modified)	426094

Prep Batch: 427709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-1	PC1-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-3	PC2-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-4	S15-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-5	S14-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-6	S13-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-7	S16-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-8	S2-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-10	S3-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-1	S4-SOIL-102120	Total/NA	Solid	SHAKE	
MB 320-427709/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-427709/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
460-221262-6 MS	S13-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-6 MSD	S13-SOIL-102120	Total/NA	Solid	SHAKE	

Analysis Batch: 427738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	537 (modified)	426801
MB 320-426801/1-A	Method Blank	Total/NA	Solid	537 (modified)	426801
LCS 320-426801/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	426801
460-221262-9 MS	DUP1-SOIL-102120	Total/NA	Solid	537 (modified)	426801
460-221262-9 MSD	DUP1-SOIL-102120	Total/NA	Solid	537 (modified)	426801

Eurofins TestAmerica, Edison

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

LCMS

Analysis Batch: 428856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-1	PC1-SOIL-102120	Total/NA	Solid	537 (modified)	427709
460-221262-3	PC2-SOIL-102120	Total/NA	Solid	537 (modified)	427709
460-221262-4	S15-SOIL-102120	Total/NA	Solid	537 (modified)	427709
460-221262-5	S14-SOIL-102120	Total/NA	Solid	537 (modified)	427709
460-221262-6	S13-SOIL-102120	Total/NA	Solid	537 (modified)	427709
460-221262-7	S16-SOIL-102120	Total/NA	Solid	537 (modified)	427709
460-221262-8	S2-SOIL-102120	Total/NA	Solid	537 (modified)	427709
460-221262-10	S3-SOIL-102120	Total/NA	Solid	537 (modified)	427709
460-221262-1	S4-SOIL-102120	Total/NA	Solid	537 (modified)	427709
MB 320-427709/1-A	Method Blank	Total/NA	Solid	537 (modified)	427709
LCS 320-427709/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	427709
460-221262-6 MS	S13-SOIL-102120	Total/NA	Solid	537 (modified)	427709
460-221262-6 MSD	S13-SOIL-102120	Total/NA	Solid	537 (modified)	427709

Prep Batch: 429933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-23 - RE	S9A-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-24 - RE	S9B-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-27 - RE	S5-Soil-102120	Total/NA	Solid	SHAKE	
460-221262-28 - RE	S10-Soil-102120	Total/NA	Solid	SHAKE	
MB 320-429933/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-429933/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
460-221262-24 MS - RE	S9B-SOIL-102120	Total/NA	Solid	SHAKE	
460-221262-24MSD - RE	S9B-SOIL-102120	Total/NA	Solid	SHAKE	

Analysis Batch: 430542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-23 - RE	S9A-SOIL-102120	Total/NA	Solid	537 (modified)	429933
460-221262-24 - RE	S9B-SOIL-102120	Total/NA	Solid	537 (modified)	429933
460-221262-27 - RE	S5-Soil-102120	Total/NA	Solid	537 (modified)	429933
460-221262-28 - RE	S10-Soil-102120	Total/NA	Solid	537 (modified)	429933
MB 320-429933/1-A	Method Blank	Total/NA	Solid	537 (modified)	429933
LCS 320-429933/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	429933
460-221262-24 MS - RE	S9B-SOIL-102120	Total/NA	Solid	537 (modified)	429933
460-221262-24MSD - RE	S9B-SOIL-102120	Total/NA	Solid	537 (modified)	429933

Metals

Prep Batch: 734596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-2	TB1-102120	Total/NA	Water	3010A	
460-221262-16	TB2-102120	Total/NA	Water	3010A	
460-221262-25	Equipment Blank 102120	Total/NA	Water	3010A	
MB 460-734596/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-734596/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 734898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-2	TB1-102120	Total/NA	Water	D	734596
460-221262-16	TB2-102120	Total/NA	Water	D	734596
460-221262-25	Equipment Blank 102120	Total/NA	Water	D	734596

Eurofins TestAmerica, Edison

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Metals (Continued)

Analysis Batch: 734898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-734596/1-A	Method Blank	Total/NA	Water	D	734596
LCS 460-734596/2-A	Lab Control Sample	Total/NA	Water	D	734596

Prep Batch: 735373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	3050B	
460-221262-5	S14-SOIL-102120	Total/NA	Solid	3050B	
460-221262-6	S13-SOIL-102120	Total/NA	Solid	3050B	
460-221262-7	S16-SOIL-102120	Total/NA	Solid	3050B	
460-221262-8	S2-SOIL-102120	Total/NA	Solid	3050B	
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	3050B	
460-221262-10	S3-SOIL-102120	Total/NA	Solid	3050B	
460-221262-1	S4-SOIL-102120	Total/NA	Solid	3050B	
460-221262-12	S1 SOIL-102120	Total/NA	Solid	3050B	
MB 460-735373/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-735373/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-221262-6 MS	S13-SOIL-102120	Total/NA	Solid	3050B	
460-221262-6 DU	S13-SOIL-102120	Total/NA	Solid	3050B	

Prep Batch: 735378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-13	S12-SOIL-102120	Total/NA	Solid	7471B	
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	7471B	
460-221262-15	S1-SOIL-102120	Total/NA	Solid	7471B	
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	7471B	
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	7471B	
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	7471B	
MB 460-735378/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-735378/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-221262-24 MS	S9B-SOIL-102120	Total/NA	Solid	7471B	
460-221262-24 DU	S9B-SOIL-102120	Total/NA	Solid	7471B	

Prep Batch: 735383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	7471B	
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	7471B	
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	7471B	
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	7471B	
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	7471B	
460-221262-27	S5-Soil-102120	Total/NA	Solid	7471B	
MB 460-735383/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-735383/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 735386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	7471B	
460-221262-5	S14-SOIL-102120	Total/NA	Solid	7471B	
460-221262-6	S13-SOIL-102120	Total/NA	Solid	7471B	
460-221262-7	S16-SOIL-102120	Total/NA	Solid	7471B	
460-221262-8	S2-SOIL-102120	Total/NA	Solid	7471B	
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	7471B	

Eurofins TestAmerica, Edison

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Metals (Continued)

Prep Batch: 735386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-10	S3-SOIL-102120	Total/NA	Solid	7471B	
460-221262-1	S4-SOIL-102120	Total/NA	Solid	7471B	
460-221262-12	S1 SOIL-102120	Total/NA	Solid	7471B	
MB 460-735386/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-735386/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	
460-221262-6 MS	S13-SOIL-102120	Total/NA	Solid	7471B	
460-221262-6 DU	S13-SOIL-102120	Total/NA	Solid	7471B	

Analysis Batch: 735489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-5	S14-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-6	S13-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-7	S16-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-8	S2-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-10	S3-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-1	S4-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-12	S1 SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-13	S12-SOIL-102120	Total/NA	Solid	7471B	735378
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	7471B	735378
460-221262-15	S1-SOIL-102120	Total/NA	Solid	7471B	735378
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	7471B	735378
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	7471B	735378
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	7471B	735383
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	7471B	735383
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	7471B	735383
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	7471B	735383
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	7471B	735383
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	7471B	735378
460-221262-27	S5-Soil-102120	Total/NA	Solid	7471B	735383
MB 460-735378/10-A	Method Blank	Total/NA	Solid	7471B	735378
MB 460-735383/1-A	Method Blank	Total/NA	Solid	7471B	735383
MB 460-735386/1-A	Method Blank	Total/NA	Solid	7471B	735386
LCSSRM 460-735378/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	735378
LCSSRM 460-735383/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	735383
LCSSRM 460-735386/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	735386
460-221262-6 MS	S13-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-24 MS	S9B-SOIL-102120	Total/NA	Solid	7471B	735378
460-221262-6 DU	S13-SOIL-102120	Total/NA	Solid	7471B	735386
460-221262-24 DU	S9B-SOIL-102120	Total/NA	Solid	7471B	735378

Analysis Batch: 735504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	D	735373
460-221262-5	S14-SOIL-102120	Total/NA	Solid	D	735373
460-221262-6	S13-SOIL-102120	Total/NA	Solid	D	735373
460-221262-7	S16-SOIL-102120	Total/NA	Solid	D	735373
460-221262-8	S2-SOIL-102120	Total/NA	Solid	D	735373
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	D	735373
460-221262-10	S3-SOIL-102120	Total/NA	Solid	D	735373

Eurofins TestAmerica, Edison

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Metals (Continued)

Analysis Batch: 735504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-1	S4-SOIL-102120	Total/NA	Solid	D	735373
460-221262-12	S1 SOIL-102120	Total/NA	Solid	D	735373
MB 460-735373/1-A ^2	Method Blank	Total/NA	Solid	D	735373
LCSSRM 460-735373/2-A ^	Lab Control Sample	Total/NA	Solid	D	735373
460-221262-6 MS	S13-SOIL-102120	Total/NA	Solid	D	735373
460-221262-6 DU	S13-SOIL-102120	Total/NA	Solid	D	735373

Prep Batch: 735508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-2	TB1-102120	Total/NA	Water	7470A	
460-221262-16	TB2-102120	Total/NA	Water	7470A	
460-221262-25	Equipment Blank 102120	Total/NA	Water	7470A	
MB 460-735508/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-735508/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 735551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-2	TB1-102120	Total/NA	Water	7470A	735508
460-221262-16	TB2-102120	Total/NA	Water	7470A	735508
460-221262-25	Equipment Blank 102120	Total/NA	Water	7470A	735508
MB 460-735508/1-A	Method Blank	Total/NA	Water	7470A	735508
LCS 460-735508/2-A	Lab Control Sample	Total/NA	Water	7470A	735508

Prep Batch: 735879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-13	S12-SOIL-102120	Total/NA	Solid	3050B	
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	3050B	
460-221262-15	S1-SOIL-102120	Total/NA	Solid	3050B	
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	3050B	
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	3050B	
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	3050B	
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	3050B	
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	3050B	
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	3050B	
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	3050B	
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	3050B	
460-221262-27	S5-Soil-102120	Total/NA	Solid	3050B	
MB 460-735879/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-735879/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-221262-24 MS	S9B-SOIL-102120	Total/NA	Solid	3050B	
460-221262-24 DU	S9B-SOIL-102120	Total/NA	Solid	3050B	

Analysis Batch: 736162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-13	S12-SOIL-102120	Total/NA	Solid	D	735879
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	D	735879
460-221262-15	S1-SOIL-102120	Total/NA	Solid	D	735879
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	D	735879
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	D	735879
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	D	735879
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	D	735879

Eurofins TestAmerica, Edison

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Metals (Continued)

Analysis Batch: 736162 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	D	735879
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	D	735879
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	D	735879
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	D	735879
460-221262-27	S5-Soil-102120	Total/NA	Solid	D	735879
MB 460-735879/1-A ^2	Method Blank	Total/NA	Solid	D	735879
LCSSRM 460-735879/2-A ^	Lab Control Sample	Total/NA	Solid	D	735879
460-221262-24 MS	S9B-SOIL-102120	Total/NA	Solid	D	735879
460-221262-24 DU	S9B-SOIL-102120	Total/NA	Solid	D	735879

Prep Batch: 736461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-28	S10-Soil-102120	Total/NA	Solid	3050B	
MB 460-736461/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-736461/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 736624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-28	S10-Soil-102120	Total/NA	Solid	7471B	
MB 460-736624/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-736624/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 736715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-28	S10-Soil-102120	Total/NA	Solid	7471B	736624
MB 460-736624/10-A	Method Blank	Total/NA	Solid	7471B	736624
LCSSRM 460-736624/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	736624

Analysis Batch: 737066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-28	S10-Soil-102120	Total/NA	Solid	D	736461
MB 460-736461/1-A ^2	Method Blank	Total/NA	Solid	D	736461
LCSSRM 460-736461/2-A ^	Lab Control Sample	Total/NA	Solid	D	736461

General Chemistry

Analysis Batch: 426264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-1	PC1-SOIL-102120	Total/NA	Solid	D 2216	
460-221262-3	PC2-SOIL-102120	Total/NA	Solid	D 2216	
460-221262-28	S10-Soil-102120	Total/NA	Solid	D 2216	

Analysis Batch: 734239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-2	TB1-102120	Total/NA	Water	7196A	
460-221262-16	TB2-102120	Total/NA	Water	7196A	
460-221262-25	Equipment Blank 102120	Total/NA	Water	7196A	
MB 460-734239/9	Method Blank	Total/NA	Water	7196A	
LCSSRM 460-734239/10	Lab Control Sample	Total/NA	Water	7196A	

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

General Chemistry

Analysis Batch: 735208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-5	S14-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-6	S13-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-7	S16-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-8	S2-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-10	S3-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-1	S4-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-12	S1 SOIL-102120	Total/NA	Solid	Moisture	
460-221262-13	S12-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-15	S1-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-6 MS	S13-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-6 MSD	S13-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-6 MSS	S13-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-4 DU	S15-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-6 DU	S13-SOIL-102120	Total/NA	Solid	Moisture	

Analysis Batch: 735216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-27	S5-Soil-102120	Total/NA	Solid	Moisture	
460-221262-24 MS	S9B-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-24 MSS	S9B-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-24MSD	S9B-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-23 DU	S9A-SOIL-102120	Total/NA	Solid	Moisture	
460-221262-24 DU	S9B-SOIL-102120	Total/NA	Solid	Moisture	

Prep Batch: 735779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	3060A	
460-221262-5	S14-SOIL-102120	Total/NA	Solid	3060A	
460-221262-6	S13-SOIL-102120	Total/NA	Solid	3060A	
460-221262-7	S16-SOIL-102120	Total/NA	Solid	3060A	
460-221262-8	S2-SOIL-102120	Total/NA	Solid	3060A	
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	3060A	
460-221262-10	S3-SOIL-102120	Total/NA	Solid	3060A	
460-221262-1	S4-SOIL-102120	Total/NA	Solid	3060A	
460-221262-12	S1 SOIL-102120	Total/NA	Solid	3060A	
460-221262-13	S12-SOIL-102120	Total/NA	Solid	3060A	
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	3060A	
460-221262-15	S1-SOIL-102120	Total/NA	Solid	3060A	
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	3060A	
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	3060A	

Eurofins TestAmerica, Edison

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

General Chemistry (Continued)

Prep Batch: 735779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	3060A	
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	3060A	
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	3060A	
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	3060A	
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	3060A	
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	3060A	
MB 460-735779/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-735779/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-735779/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-221262-6 MSI	S13-SOIL-102120	Total/NA	Solid	3060A	
460-221262-6 MSS	S13-SOIL-102120	Total/NA	Solid	3060A	
460-221262-24 MSI	S9B-SOIL-102120	Total/NA	Solid	3060A	
460-221262-24 MSS	S9B-SOIL-102120	Total/NA	Solid	3060A	
460-221262-6 DU	S13-SOIL-102120	Total/NA	Solid	3060A	
460-221262-24 DU	S9B-SOIL-102120	Total/NA	Solid	3060A	

Prep Batch: 735855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-27	S5-Soil-102120	Total/NA	Solid	3060A	
MB 460-735855/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-735855/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-735855/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 736100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-5	S14-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-6	S13-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-7	S16-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-8	S2-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-10	S3-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-1	S4-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-12	S1 SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-13	S12-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-15	S1-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	7196A	735779
MB 460-735779/1-A	Method Blank	Total/NA	Solid	7196A	735779
LCSI 460-735779/3-A	Lab Control Sample	Total/NA	Solid	7196A	735779
LCSSRM 460-735779/2-A	Lab Control Sample	Total/NA	Solid	7196A	735779
460-221262-6 MSI	S13-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-6 MSS	S13-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-24 MSI	S9B-SOIL-102120	Total/NA	Solid	7196A	735779

Eurofins TestAmerica, Edison

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

General Chemistry (Continued)

Analysis Batch: 736100 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-24 MSS	S9B-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-6 DU	S13-SOIL-102120	Total/NA	Solid	7196A	735779
460-221262-24 DU	S9B-SOIL-102120	Total/NA	Solid	7196A	735779

Analysis Batch: 736102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-27	S5-Soil-102120	Total/NA	Solid	7196A	735855
MB 460-735855/1-A	Method Blank	Total/NA	Solid	7196A	735855
LCSI 460-735855/3-A	Lab Control Sample	Total/NA	Solid	7196A	735855
LCSSRM 460-735855/2-A	Lab Control Sample	Total/NA	Solid	7196A	735855

Prep Batch: 736559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	3060A	
460-221262-5	S14-SOIL-102120	Total/NA	Solid	3060A	
460-221262-6	S13-SOIL-102120	Total/NA	Solid	3060A	
460-221262-7	S16-SOIL-102120	Total/NA	Solid	3060A	
460-221262-8	S2-SOIL-102120	Total/NA	Solid	3060A	
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	3060A	
460-221262-10	S3-SOIL-102120	Total/NA	Solid	3060A	
460-221262-1	S4-SOIL-102120	Total/NA	Solid	3060A	
460-221262-12	S1 SOIL-102120	Total/NA	Solid	3060A	
460-221262-13	S12-SOIL-102120	Total/NA	Solid	3060A	
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	3060A	
460-221262-15	S1-SOIL-102120	Total/NA	Solid	3060A	
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	3060A	
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	3060A	
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	3060A	
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	3060A	
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	3060A	
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	3060A	
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	3060A	
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	3060A	
MB 460-736559/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-736559/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-736559/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-221262-6 MSI	S13-SOIL-102120	Total/NA	Solid	3060A	
460-221262-6 MSS	S13-SOIL-102120	Total/NA	Solid	3060A	
460-221262-24 MSI	S9B-SOIL-102120	Total/NA	Solid	3060A	
460-221262-24 MSS	S9B-SOIL-102120	Total/NA	Solid	3060A	
460-221262-6 DU	S13-SOIL-102120	Total/NA	Solid	3060A	
460-221262-24 DU	S9B-SOIL-102120	Total/NA	Solid	3060A	

Analysis Batch: 736763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-5	S14-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-6	S13-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-7	S16-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-8	S2-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-9	DUP1-SOIL-102120	Total/NA	Solid	7196A	736559

Eurofins TestAmerica, Edison

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

General Chemistry (Continued)

Analysis Batch: 736763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-10	S3-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-1	S4-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-12	S1 SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-13	S12-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-14	DUP2-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-15	S1-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-17	S6A-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-18	S6B-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-19	S7A-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-20	S7B-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-21	S8A-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-23	S9A-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-24	S9B-SOIL-102120	Total/NA	Solid	7196A	736559
MB 460-736559/1-A	Method Blank	Total/NA	Solid	7196A	736559
LCSI 460-736559/3-A	Lab Control Sample	Total/NA	Solid	7196A	736559
LCSSRM 460-736559/2-A	Lab Control Sample	Total/NA	Solid	7196A	736559
460-221262-6 MSI	S13-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-6 MSS	S13-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-24 MSI	S9B-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-24 MSS	S9B-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-6 DU	S13-SOIL-102120	Total/NA	Solid	7196A	736559
460-221262-24 DU	S9B-SOIL-102120	Total/NA	Solid	7196A	736559

Prep Batch: 736963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-28	S10-Soil-102120	Total/NA	Solid	3060A	
MB 460-736963/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-736963/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-736963/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 736986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-28	S10-Soil-102120	Total/NA	Solid	7196A	736963
MB 460-736963/1-A	Method Blank	Total/NA	Solid	7196A	736963
LCSI 460-736963/3-A	Lab Control Sample	Total/NA	Solid	7196A	736963
LCSSRM 460-736963/2-A	Lab Control Sample	Total/NA	Solid	7196A	736963

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: PC1-SOIL-102120

Lab Sample ID: 460-221262-1

Date Collected: 10/21/20 08:45

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	D 2216		1	426264	10/28/20 13:11	TCS	TAL SAC

Client Sample ID: PC1-SOIL-102120

Lab Sample ID: 460-221262-1

Date Collected: 10/21/20 08:45

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 58.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			427709	11/02/20 12:18	EH	TAL SAC
T tal/NA	Analysis	537 (modified)		1	428856	11/05/20 15:43	K1S	TAL SAC

Client Sample ID: TB1-102120

Lab Sample ID: 460-221262-2

Date Collected: 10/21/20 00:00

Matrix: Water

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			426004	10/27/20 18:39	AP	TAL SAC
T tal/NA	Analysis	537 (modified)		1	426308	10/28/20 23:33	K1S	TAL SAC
T tal/NA	Prep	3010A			734596	10/24/20 20:00	GRB	TAL EDI
T tal/NA	Analysis	6010D		1	734898	10/26/20 16:57	ZH	TAL EDI
T tal/NA	Prep	7470A			735508	10/28/20 12:28	RBS	TAL EDI
T tal/NA	Analysis	7470A		1	735551	10/28/20 14:19	RBS	TAL EDI
T tal/NA	Analysis	7196A		1	734239	10/23/20 16:30	VBG	TAL EDI

Client Sample ID: PC2-SOIL-102120

Lab Sample ID: 460-221262-3

Date Collected: 10/21/20 09:30

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	D 2216		1	426264	10/28/20 13:11	TCS	TAL SAC

Client Sample ID: PC2-SOIL-102120

Lab Sample ID: 460-221262-3

Date Collected: 10/21/20 09:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			427709	11/02/20 12:18	EH	TAL SAC
T tal/NA	Analysis	537 (modified)		1	428856	11/05/20 15:53	K1S	TAL SAC

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			427709	11/02/20 12:18	EH	TAL SAC
T tal/NA	Analysis	537 (modified)		1	428856	11/05/20 16:02	K1S	TAL SAC
T tal/NA	Prep	3050B			735373	10/28/20 02:35	GMC	TAL EDI
T tal/NA	Analysis	6010D		2	735504	10/28/20 18:58	CDC	TAL EDI
T tal/NA	Prep	7471B			735386	10/28/20 03:49	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 08:28	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 11:13	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:13	RPR	TAL EDI

Client Sample ID: S14-SOIL-102120

Lab Sample ID: 460-221262-5

Date Collected: 10/21/20 10:50

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: S14-SOIL-102120

Lab Sample ID: 460-221262-5

Date Collected: 10/21/20 10:50

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			427709	11/02/20 12:18	EH	TAL SAC
T tal/NA	Analysis	537 (modified)		1	428856	11/05/20 16:11	K1S	TAL SAC
T tal/NA	Prep	3050B			735373	10/28/20 02:35	GMC	TAL EDI
T tal/NA	Analysis	6010D		2	735504	10/28/20 19:02	CDC	TAL EDI
T tal/NA	Prep	7471B			735386	10/28/20 03:49	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 08:30	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: S13-SOIL-102120

Lab Sample ID: 460-221262-6

Date Collected: 10/21/20 11:05

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S13-SOIL-102120

Lab Sample ID: 460-221262-6

Date Collected: 10/21/20 11:05

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			427709	11/02/20 12:18	EH	TAL SAC
T tal/NA	Analysis	537 (modified)		1	428856	11/05/20 16:39	K1S	TAL SAC
T tal/NA	Prep	3050B			735373	10/28/20 02:35	GMC	TAL EDI
T tal/NA	Analysis	6010D		2	735504	10/28/20 18:14	CDC	TAL EDI
T tal/NA	Prep	7471B			735386	10/28/20 03:49	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 08:20	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 11:13	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:13	RPR	TAL EDI

Client Sample ID: S16-SOIL-102120

Lab Sample ID: 460-221262-7

Date Collected: 10/21/20 11:35

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: S16-SOIL-102120

Lab Sample ID: 460-221262-7

Date Collected: 10/21/20 11:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			427709	11/02/20 12:18	EH	TAL SAC
T tal/NA	Analysis	537 (modified)		1	428856	11/05/20 17:07	K1S	TAL SAC
T tal/NA	Prep	3050B			735373	10/28/20 02:35	GMC	TAL EDI
T tal/NA	Analysis	6010D		2	735504	10/28/20 19:06	CDC	TAL EDI
T tal/NA	Prep	7471B			735386	10/28/20 03:49	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 08:32	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: S2-SOIL-102120

Lab Sample ID: 460-221262-8

Date Collected: 10/21/20 11:55

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S2-SOIL-102120

Lab Sample ID: 460-221262-8

Date Collected: 10/21/20 11:55

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 67.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			427709	11/02/20 12:18	EH	TAL SAC
T tal/NA	Analysis	537 (modified)		1	428856	11/05/20 17:17	K1S	TAL SAC
T tal/NA	Prep	3050B			735373	10/28/20 02:35	GMC	TAL EDI
T tal/NA	Analysis	6010D		2	735504	10/28/20 19:10	CDC	TAL EDI
T tal/NA	Prep	7471B			735386	10/28/20 03:49	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 08:34	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: DUP1-SOIL-102120

Lab Sample ID: 460-221262-9

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: DUP1-SOIL-102120

Lab Sample ID: 460-221262-9

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 68.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426801	10/30/20 04:16	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427738	11/02/20 15:04	S1M	TAL SAC
T tal/NA	Prep	3050B			735373	10/28/20 02:35	GMC	TAL EDI
T tal/NA	Analysis	6010D		2	735504	10/28/20 19:14	CDC	TAL EDI
T tal/NA	Prep	7471B			735386	10/28/20 03:49	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 08:40	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: S3-SOIL-102120

Lab Sample ID: 460-221262-10

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S3-SOIL-102120

Lab Sample ID: 460-221262-10

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			427709	11/02/20 12:18	EH	TAL SAC
T tal/NA	Analysis	537 (modified)		1	428856	11/05/20 17:26	K1S	TAL SAC
T tal/NA	Prep	3050B			735373	10/28/20 02:35	GMC	TAL EDI
T tal/NA	Analysis	6010D		2	735504	10/28/20 19:18	CDC	TAL EDI
T tal/NA	Prep	7471B			735386	10/28/20 03:49	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 08:42	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: S4-SOIL-102120

Lab Sample ID: 460-221262-11

Date Collected: 10/21/20 17:49

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: S4-SOIL-102120

Lab Sample ID: 460-221262-11

Date Collected: 10/21/20 17:49

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			427709	11/02/20 12:18	EH	TAL SAC
T tal/NA	Analysis	537 (modified)		1	428856	11/05/20 17:35	K1S	TAL SAC
T tal/NA	Prep	3050B			735373	10/28/20 02:35	GMC	TAL EDI
T tal/NA	Analysis	6010D		2	735504	10/28/20 19:30	CDC	TAL EDI
T tal/NA	Prep	7471B			735386	10/28/20 03:49	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 08:44	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: S11-SOIL-102120

Lab Sample ID: 460-221262-12

Date Collected: 10/21/20 17:37

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S11-SOIL-102120

Lab Sample ID: 460-221262-12

Date Collected: 10/21/20 17:37

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 72.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/01/20 23:50	MNV	TAL SAC
T tal/NA	Prep	3050B			735373	10/28/20 02:35	GMC	TAL EDI
T tal/NA	Analysis	6010D		2	735504	10/28/20 19:34	CDC	TAL EDI
T tal/NA	Prep	7471B			735386	10/28/20 03:49	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 08:46	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: S12-SOIL-102120

Lab Sample ID: 460-221262-13

Date Collected: 10/21/20 14:55

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: S12-SOIL-102120

Lab Sample ID: 460-221262-13

Date Collected: 10/21/20 14:55

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/02/20 00:18	MNV	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 12:34	CDC	TAL EDI
T tal/NA	Prep	7471B			735378	10/28/20 02:58	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:05	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: DUP2-SOIL-102120

Lab Sample ID: 460-221262-14

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: DUP2-SOIL-102120

Lab Sample ID: 460-221262-14

Date Collected: 10/21/20 00:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/02/20 00:28	MNV	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 12:38	CDC	TAL EDI
T tal/NA	Prep	7471B			735378	10/28/20 02:58	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:07	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: S1-SOIL-102120

Lab Sample ID: 460-221262-15

Date Collected: 10/21/20 16:30

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: S1-SOIL-102120

Lab Sample ID: 460-221262-15

Date Collected: 10/21/20 16:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/02/20 00:37	MNV	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 12:42	CDC	TAL EDI
T tal/NA	Prep	7471B			735378	10/28/20 02:58	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:09	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 12:09	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 13:46	RPR	TAL EDI

Client Sample ID: TB2-102120

Lab Sample ID: 460-221262-16

Date Collected: 10/21/20 00:00

Matrix: Water

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			426004	10/27/20 18:39	AP	TAL SAC
T tal/NA	Analysis	537 (modified)		1	426308	10/29/20 00:00	K1S	TAL SAC
T tal/NA	Prep	3010A			734596	10/24/20 20:00	GRB	TAL EDI
T tal/NA	Analysis	6010D		1	734898	10/26/20 17:01	ZH	TAL EDI
T tal/NA	Prep	7470A			735508	10/28/20 12:28	RBS	TAL EDI
T tal/NA	Analysis	7470A		1	735551	10/28/20 14:21	RBS	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: TB2-102120

Lab Sample ID: 460-221262-16

Date Collected: 10/21/20 00:00

Matrix: Water

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	7196A		1	734239	10/23/20 16:30	VBG	TAL EDI

Client Sample ID: S6A-SOIL-102120

Lab Sample ID: 460-221262-17

Date Collected: 10/21/20 14:40

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: S6A-SOIL-102120

Lab Sample ID: 460-221262-17

Date Collected: 10/21/20 14:40

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/02/20 00:47	MNV	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 12:46	CDC	TAL EDI
T tal/NA	Prep	7471B			735378	10/28/20 02:58	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:11	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 13:10	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 14:22	RPR	TAL EDI

Client Sample ID: S6B-SOIL-102120

Lab Sample ID: 460-221262-18

Date Collected: 10/21/20 14:50

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: S6B-SOIL-102120

Lab Sample ID: 460-221262-18

Date Collected: 10/21/20 14:50

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/02/20 00:56	MNV	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 12:50	CDC	TAL EDI
T tal/NA	Prep	7471B			735378	10/28/20 02:58	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:13	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 13:10	RPR	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S6B-SOIL-102120

Lab Sample ID: 460-221262-18

Date Collected: 10/21/20 14:50

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 14:22	RPR	TAL EDI

Client Sample ID: S7A-SOIL-102120

Lab Sample ID: 460-221262-19

Date Collected: 10/21/20 15:05

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: S7A-SOIL-102120

Lab Sample ID: 460-221262-19

Date Collected: 10/21/20 15:05

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/02/20 01:24	MNV	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 12:54	CDC	TAL EDI
T tal/NA	Prep	7471B			735383	10/28/20 03:25	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:37	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 13:10	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 14:22	RPR	TAL EDI

Client Sample ID: S7B-SOIL-102120

Lab Sample ID: 460-221262-20

Date Collected: 10/21/20 15:15

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:18	MMC	TAL EDI

Client Sample ID: S7B-SOIL-102120

Lab Sample ID: 460-221262-20

Date Collected: 10/21/20 15:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/02/20 01:34	MNV	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 12:58	CDC	TAL EDI
T tal/NA	Prep	7471B			735383	10/28/20 03:25	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:39	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 13:10	RPR	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S7B-SOIL-102120

Lab Sample ID: 460-221262-20

Date Collected: 10/21/20 15:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 14:22	RPR	TAL EDI

Client Sample ID: S8A-SOIL-102120

Lab Sample ID: 460-221262-21

Date Collected: 10/21/20 14:00

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:19	MMC	TAL EDI

Client Sample ID: S8A-SOIL-102120

Lab Sample ID: 460-221262-21

Date Collected: 10/21/20 14:00

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/02/20 01:43	MNV	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 13:02	CDC	TAL EDI
T tal/NA	Prep	7471B			735383	10/28/20 03:25	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:41	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 13:10	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 14:22	RPR	TAL EDI

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735208	10/27/20 13:19	MMC	TAL EDI

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426094	10/28/20 06:59	SS	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427508	11/02/20 01:52	MNV	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 13:06	CDC	TAL EDI
T tal/NA	Prep	7471B			735383	10/28/20 03:25	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:43	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 13:10	RPR	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
Ttal/NA	Analysis	7196A		1	736763	11/02/20 14:22	RPR	TAL EDI

Client Sample ID: S9A-SOIL-102120

Lab Sample ID: 460-221262-23

Date Collected: 10/21/20 15:30

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Analysis	Moisture		1	735216	10/27/20 13:49	MMC	TAL EDI

Client Sample ID: S9A-SOIL-102120

Lab Sample ID: 460-221262-23

Date Collected: 10/21/20 15:30

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	SHAKE			426095	10/28/20 07:03	HJA	TAL SAC
Ttal/NA	Analysis	537 (modified)		1	427153	10/30/20 21:56	S1M	TAL SAC
Ttal/NA	Prep	SHAKE	RE		429933	11/09/20 15:20	GWO	TAL SAC
Ttal/NA	Analysis	537 (modified)	RE	1	430542	11/11/20 11:06	IK	TAL SAC
Ttal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
Ttal/NA	Analysis	6010D		2	736162	10/30/20 13:18	CDC	TAL EDI
Ttal/NA	Prep	7471B			735383	10/28/20 03:25	TJS	TAL EDI
Ttal/NA	Analysis	7471B		1	735489	10/28/20 07:45	TJS	TAL EDI
Ttal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
Ttal/NA	Analysis	7196A		1	736100	10/30/20 13:10	RPR	TAL EDI
Ttal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
Ttal/NA	Analysis	7196A		1	736763	11/02/20 14:22	RPR	TAL EDI

Client Sample ID: S9B-SOIL-102120

Lab Sample ID: 460-221262-24

Date Collected: 10/21/20 15:45

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Analysis	Moisture		1	735216	10/27/20 13:49	MMC	TAL EDI

Client Sample ID: S9B-SOIL-102120

Lab Sample ID: 460-221262-24

Date Collected: 10/21/20 15:45

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Prep	SHAKE			426095	10/28/20 07:03	HJA	TAL SAC
Ttal/NA	Analysis	537 (modified)		1	427153	10/30/20 22:06	S1M	TAL SAC
Ttal/NA	Prep	SHAKE	RE		429933	11/09/20 15:20	GWO	TAL SAC
Ttal/NA	Analysis	537 (modified)	RE	1	430542	11/11/20 11:15	IK	TAL SAC
Ttal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
Ttal/NA	Analysis	6010D		2	736162	10/30/20 12:03	CDC	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S9B-SOIL-102120

Lab Sample ID: 460-221262-24

Date Collected: 10/21/20 15:45

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	7471B			735378	10/28/20 02:58	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 06:21	TJS	TAL EDI
T tal/NA	Prep	3060A			735779	10/29/20 09:04	RPR	TAL EDI
T tal/NA	Analysis	7196A		1	736100	10/30/20 13:35	RPR	TAL EDI
T tal/NA	Prep	3060A			736559	11/01/20 12:08	MBE	TAL EDI
T tal/NA	Analysis	7196A		1	736763	11/02/20 14:22	RPR	TAL EDI

Client Sample ID: Equipment Blank 102120

Lab Sample ID: 460-221262-25

Date Collected: 10/21/20 14:30

Matrix: Water

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			426004	10/27/20 18:39	AP	TAL SAC
T tal/NA	Analysis	537 (modified)		1	426308	10/29/20 00:09	K1S	TAL SAC
T tal/NA	Prep	3010A			734596	10/24/20 20:00	GRB	TAL EDI
T tal/NA	Analysis	6010D		1	734898	10/26/20 17:05	ZH	TAL EDI
T tal/NA	Prep	7470A			735508	10/28/20 12:28	RBS	TAL EDI
T tal/NA	Analysis	7470A		1	735551	10/28/20 14:22	RBS	TAL EDI
T tal/NA	Analysis	7196A		1	734239	10/23/20 16:30	VBG	TAL EDI

Client Sample ID: Field Blank 102120

Lab Sample ID: 460-221262-26

Date Collected: 10/21/20 16:30

Matrix: Water

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	3535			426004	10/27/20 18:39	AP	TAL SAC
T tal/NA	Analysis	537 (modified)		1	426308	10/29/20 00:19	K1S	TAL SAC

Client Sample ID: S5-Soil-102120

Lab Sample ID: 460-221262-27

Date Collected: 10/21/20 16:48

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	Moisture		1	735216	10/27/20 13:49	MMC	TAL EDI

Client Sample ID: S5-Soil-102120

Lab Sample ID: 460-221262-27

Date Collected: 10/21/20 16:48

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426095	10/28/20 07:03	HJA	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427153	10/30/20 22:34	S1M	TAL SAC
T tal/NA	Prep	SHAKE	RE		429933	11/09/20 15:20	GWO	TAL SAC
T tal/NA	Analysis	537 (modified)	RE	1	430542	11/11/20 11:43	IK	TAL SAC
T tal/NA	Prep	3050B			735879	10/29/20 15:00	GAE	TAL EDI
T tal/NA	Analysis	6010D		2	736162	10/30/20 13:22	CDC	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Client Sample ID: S5-Soil-102120

Lab Sample ID: 460-221262-27

Date Collected: 10/21/20 16:48

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	7471B			735383	10/28/20 03:25	TJS	TAL EDI
T tal/NA	Analysis	7471B		1	735489	10/28/20 07:47	TJS	TAL EDI
T tal/NA	Prep	3060A			735855	10/29/20 13:45	PLS	TAL EDI
T tal/NA	Analysis	7196A		1	736102	10/31/20 11:52	RPR	TAL EDI

Client Sample ID: S10-Soil-102120

Lab Sample ID: 460-221262-28

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Analysis	D 2216		1	426264	10/28/20 13:11	TCS	TAL SAC

Client Sample ID: S10-Soil-102120

Lab Sample ID: 460-221262-28

Date Collected: 10/21/20 17:15

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
T tal/NA	Prep	SHAKE			426095	10/28/20 07:03	HJA	TAL SAC
T tal/NA	Analysis	537 (modified)		1	427153	10/30/20 22:43	S1M	TAL SAC
T tal/NA	Prep	SHAKE	RE		429933	11/09/20 15:20	GWO	TAL SAC
T tal/NA	Analysis	537 (modified)	RE	1	430542	11/11/20 11:53	IK	TAL SAC
T tal/NA	Prep	3050B			736461	10/31/20 16:58	GRB	TAL EDI
T tal/NA	Analysis	6010D		2	737066	11/03/20 19:51	CDC	TAL EDI
T tal/NA	Prep	7471B			736624	11/02/20 02:55	TJS	TAL EDI
T tal/NA	Analysis	7471B		3	736715	11/02/20 09:34	TJS	TAL EDI
T tal/NA	Prep	3060A			736963	11/03/20 07:40	VBG	TAL EDI
T tal/NA	Analysis	7196A		1	736986	11/03/20 15:16	RPR	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
ew k	ELAP	11452	04-01-21

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
7470A	7470A	Water	Mercury
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
ew k	ELAP	11666	04-01-21

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	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	-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 (PFDoA)
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 (FOSA)
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 (PFTiA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)
537 (modified)	SHAKE	Solid	6:2 FTS
537 (modified)	SHAKE	Solid	8:2 FTS
537 (modified)	SHAKE	Solid	-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	SHAKE	Solid	-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	SHAKE	Solid	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	SHAKE	Solid	Perfluorobutanoic acid (PFBA)
537 (modified)	SHAKE	Solid	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	SHAKE	Solid	Perfluorodecanoic acid (PFDA)
537 (modified)	SHAKE	Solid	Perfluorododecanoic acid (PFDoA)

Eurofins TestAmerica, Edison

Accreditation/Certification Summary

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

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

Authority	Program	Identification Number	Expiration Date
ew k	ELAP	11666	04-01-21
537 (modified)	SHAKE Solid	Perfluoroheptanesulfonic Acid (PFHpS)	
537 (modified)	SHAKE Solid	Perfluoroheptanoic acid (PFHpA)	
537 (modified)	SHAKE Solid	Perfluorohexanesulfonic acid (PFHxS)	
537 (modified)	SHAKE Solid	Perfluorohexanoic acid (PFHxA)	
537 (modified)	SHAKE Solid	Perfluorononanoic acid (PFNA)	
537 (modified)	SHAKE Solid	Perfluorooctanesulfonamide (FOSA)	
537 (modified)	SHAKE Solid	Perfluorooctanesulfonic acid (PFOS)	
537 (modified)	SHAKE Solid	Perfluorooctanoic acid (PFOA)	
537 (modified)	SHAKE Solid	Perfluoropentanoic acid (PFPeA)	
537 (modified)	SHAKE Solid	Perfluorotetradecanoic acid (PFTeA)	
537 (modified)	SHAKE Solid	Perfluorotridecanoic acid (PFTiA)	
537 (modified)	SHAKE Solid	Perfluoroundecanoic acid (PFUnA)	
D 2216	Solid	Percent Moisture	
D 2216	Solid	Percent Solids	

Method Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
D	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
7196A	Chromium, Hexavalent	SW846	TAL EDI
D 2216	Percent Moisture	ASTM	TAL SAC
Moisture	Percent Moisture	EPA	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	TAL EDI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
7470A	Preparation, Mercury	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

ASTM = ASTM International

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 EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

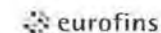
Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-1

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-221262-1	PC1-SOIL-102120	Solid	08:45	3/20 10:00	
460-221262-2	TB1-102120	Water	00:00	3/20 10:00	
460-221262-3	PC2-SOIL-102120	Solid	09:30	3/20 10:00	
460-221262-4	S15-SOIL-102120	Solid	10:35	3/20 10:00	
460-221262-5	S14-SOIL-102120	Solid	10:50	3/20 10:00	
460-221262-6	S13-SOIL-102120	Solid	1 :05	3/20 10:00	
460-221262-7	S16-SOIL-102120	Solid	1 :35	3/20 10:00	
460-221262-8	S2-SOIL-102120	Solid	1 :55	3/20 10:00	
460-221262-9	DUP1-SOIL-102120	Solid	00:00	3/20 10:00	
460-221262-10	S3-SOIL-102120	Solid	17:15	3/20 10:00	
460-221262-1	S4-SOIL-102120	Solid	17:49	3/20 10:00	
460-221262-12	S1 SOIL-102120	Solid	17:37	3/20 10:00	
460-221262-13	S12-SOIL-102120	Solid	14:55	3/20 10:00	
460-221262-14	DUP2-SOIL-102120	Solid	00:00	3/20 10:00	
460-221262-15	S1-SOIL-102120	Solid	16:30	3/20 10:00	
460-221262-16	TB2-102120	Water	00:00	3/20 10:00	
460-221262-17	S6A-SOIL-102120	Solid	14:40	3/20 10:00	
460-221262-18	S6B-SOIL-102120	Solid	14:50	3/20 10:00	
460-221262-19	S7A-SOIL-102120	Solid	15:05	3/20 10:00	
460-221262-20	S7B-SOIL-102120	Solid	15:15	3/20 10:00	
460-221262-21	S8A-SOIL-102120	Solid	14:00	3/20 10:00	
460-221262-22	S8B-SOIL-102120	Solid	14:10	3/20 10:00	
460-221262-23	S9A-SOIL-102120	Solid	15:30	3/20 10:00	
460-221262-24	S9B-SOIL-102120	Solid	15:45	3/20 10:00	
460-221262-25	Equipment Blank 102120	Water	14:30	3/20 :00	
460-221262-26	Field Blank 102120	Water	16:30	3/20 10:0	
460-221262-27	S5-Soil-102120	Solid	16:48	3/20 10:00	
460-221262-28	S10-Soil-102120	Solid	17:15	3/20 10:00	

Chain of Custody Record

Albany
#224



Environment Testing
America

Client Information Client Contact: Lynn Winterberger Company: New York State D.E.C. Address: 625 Broadway Division of Environmental Remediation City: Albany State, Zip: NY, 12233-7014 Phone: 518-402-9267 (Tel) Email: lynn.winterberger@dec.ny.gov Project Name: Norlite - Cohoes #401041 Site:				Sampler: <u>Brian Jankavskas</u> Phone:		Lab PM: Stone, Judy L. E-Mail: Judy.Stone@Eurofinset.com		Carrier Tracking No(s): COC No: 480-150123-33366.1 Page: Page 1 of 7 Job #: <u>221262</u>																																																																																																																																																																																																																																																																																			
				Due Date Requested: TAT Requested (days): <u>Standard</u> PO #: Call Out DMM R4 - 401041 WO #: Project #: 48022694 SSOW#		Analysis Requested Field Filtered Sample (Yes or No) ☒ Perform MS/MSD (Yes or No) ☒ PFC_IDA - PFAS, Standard List (21 Analytes) 60100, 7196A, 7471B 60100, 7470A 7196A - Hexavalent Chromium - 7196 <u>PFC - IDA - TOPS Assay</u>  460-221262 Chain of Custody SHORT HOLD Total Number of containers: <u>1</u> 1 - H₂O J - DI Water K - EDTA L - EDA U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:																																																																																																																																																																																																																																																																																					
Sample Identification <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>PFC_IDA</th> <th>PFAS</th> <th>Standard List</th> <th>21 Analytes</th> <th>60100</th> <th>7196A</th> <th>7471B</th> <th>60100</th> <th>7470A</th> <th>7196A</th> <th>Hexavalent Chromium</th> <th>7196</th> <th>PFC - IDA</th> <th>TOPS Assay</th> <th>Total Number of containers</th> <th>Special Instructions/Note</th> </tr> </thead> <tbody> <tr> <td>PC1 - SOIL - 102120</td> <td>10/21/20</td> <td>845</td> <td>G</td> <td>Solid</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>TB1 - 102120</td> <td>10/21/20</td> <td>-</td> <td>-</td> <td>Solid</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>Trip Blank 4 containers</td> </tr> <tr> <td>PC2 - SOIL - 102120</td> <td>10/21/20</td> <td>930</td> <td>G</td> <td>Solid</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>S15 - SOIL - 102120</td> <td>10/21/20</td> <td>1035</td> <td>G</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>3 containers</td> </tr> <tr> <td>S14 - SOIL - 102120</td> <td>10/21/20</td> <td>1050</td> <td>G</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>S13 - SOIL - 102120</td> <td>10/21/20</td> <td>1105</td> <td>G</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6</td> <td>ms/msd</td> </tr> <tr> <td>S16 - SOIL - 102120</td> <td>10/21/20</td> <td>1135</td> <td>G</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>S2 - SOIL - 102120</td> <td>10/21/20</td> <td>1155</td> <td>G</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>DUP1 - SOIL - 102120</td> <td>10/21/20</td> <td>-</td> <td>G</td> <td>Solid</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Solid</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Solid</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA	PFAS	Standard List	21 Analytes	60100	7196A	7471B	60100	7470A	7196A	Hexavalent Chromium	7196	PFC - IDA	TOPS Assay	Total Number of containers	Special Instructions/Note	PC1 - SOIL - 102120	10/21/20	845	G	Solid		X															1		TB1 - 102120	10/21/20	-	-	Solid		X															1	Trip Blank 4 containers	PC2 - SOIL - 102120	10/21/20	930	G	Solid		X															1		S15 - SOIL - 102120	10/21/20	1035	G	Solid		X	X														2	3 containers	S14 - SOIL - 102120	10/21/20	1050	G	Solid		X	X														2		S13 - SOIL - 102120	10/21/20	1105	G	Solid		X	X	X													6	ms/msd	S16 - SOIL - 102120	10/21/20	1135	G	Solid		X	X														2		S2 - SOIL - 102120	10/21/20	1155	G	Solid		X	X														2		DUP1 - SOIL - 102120	10/21/20	-	G	Solid		X	X														2						Solid																							Solid																			Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify) <u>Cat B, NYS EDD</u> Empty Kit Relinquished by: <u>[Signature]</u> Date: <u>10/24/20</u> Time: <u>10:40</u> Method of Shipment: <u>EETA</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>10/22/20 1700</u> Company: <u>EETA</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>10/23/20 1000</u> Company: <u>EETA</u> Custody Seals Intact: ☒ Yes ☐ No Custody Seal No.: <u>25 Present</u> Cooler Temperature(s) and Other Remarks: <u>4.5 - 3.8°C IR#11</u>			
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA	PFAS	Standard List	21 Analytes	60100	7196A	7471B	60100	7470A	7196A	Hexavalent Chromium	7196	PFC - IDA	TOPS Assay	Total Number of containers	Special Instructions/Note																																																																																																																																																																																																																																																																					
PC1 - SOIL - 102120	10/21/20	845	G	Solid		X															1																																																																																																																																																																																																																																																																						
TB1 - 102120	10/21/20	-	-	Solid		X															1	Trip Blank 4 containers																																																																																																																																																																																																																																																																					
PC2 - SOIL - 102120	10/21/20	930	G	Solid		X															1																																																																																																																																																																																																																																																																						
S15 - SOIL - 102120	10/21/20	1035	G	Solid		X	X														2	3 containers																																																																																																																																																																																																																																																																					
S14 - SOIL - 102120	10/21/20	1050	G	Solid		X	X														2																																																																																																																																																																																																																																																																						
S13 - SOIL - 102120	10/21/20	1105	G	Solid		X	X	X													6	ms/msd																																																																																																																																																																																																																																																																					
S16 - SOIL - 102120	10/21/20	1135	G	Solid		X	X														2																																																																																																																																																																																																																																																																						
S2 - SOIL - 102120	10/21/20	1155	G	Solid		X	X														2																																																																																																																																																																																																																																																																						
DUP1 - SOIL - 102120	10/21/20	-	G	Solid		X	X														2																																																																																																																																																																																																																																																																						
				Solid																																																																																																																																																																																																																																																																																							
				Solid																																																																																																																																																																																																																																																																																							

Ver: 01/16/2019

1/22/2021 (Rev. 1)

Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

Client Information				Sampler: <i>Brian Jankowski</i> Lab PM: Stone, Judy L.		Carrier Tracking No(s):		COC No: 480-150123-33366.2					
Client Contact: Lynn Winterberger				Phone:		E-Mail: Judy.Stone@Eurofinset.com		Page: Page 2 of 7					
Company: New York State D.E.C.						Analysis Requested		Job #: <i>221262</i>					
Address: 625 Broadway Division of Environmental Remediation				Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) PFC_IDA - PFAS, Standard List (21 Analyses) 6010D, 7196A, 7471B 6010D, 7470A 7196A - Hexavalent Chromium - 7196 Total Number of containers		Preservation Codes:					
City: Albany				TAT Requested (days): <i>Standard</i>				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
State, Zip: NY, 12233-7014													
Phone: 518-402-9267(Tel)				PO #: Call Out DMM R4 - 401041									
Email: lynn.winterberger@dec.ny.gov				WO #:									
Project Name: Norlite - Cohoes #401041				Project #: 48022694									
Site:				SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 Analyses)	6010D, 7196A, 7471B	6010D, 7470A	7196A - Hexavalent Chromium - 7196	Total Number of containers	Special Instructions/Note:
				Preservation Code:		X	X	N	N	D	N		
<i>S3-SOIL-102120</i>		<i>10/21/20</i>	<i>515</i>	<i>G</i>	<i>Solid</i>			<i>X</i>	<i>X</i>		<i>X</i>	<i>2</i>	<i>10</i>
<i>S4-SOIL-102120</i>		<i>10/21/20</i>	<i>549</i>	<i>G</i>	<i>Solid</i>			<i>X</i>	<i>X</i>		<i>X</i>	<i>2</i>	<i>11</i>
<i>S11-SOIL-102120</i>		<i>10/21/20</i>	<i>387</i>	<i>G</i>	<i>Solid</i>			<i>X</i>	<i>X</i>		<i>X</i>	<i>2</i>	<i>12</i>
<i>S12-SOIL-102120</i>		<i>10/21/20</i>	<i>255</i>	<i>G</i>	<i>Solid</i>			<i>X</i>	<i>X</i>		<i>X</i>	<i>2</i>	<i>13</i>
<i>DUP2-SOIL-102120</i>		<i>10/21/20</i>	<i>—</i>	<i>G</i>	<i>Solid</i>			<i>X</i>	<i>X</i>		<i>X</i>	<i>2</i>	<i>14</i>
<i>S1-SOIL-102120</i>		<i>10/21/20</i>	<i>430</i>	<i>G</i>	<i>Solid</i>			<i>X</i>	<i>X</i>		<i>X</i>	<i>2</i>	<i>15</i>
<i>TB2-102120</i>		<i>10/21/20</i>	<i>—</i>	<i>—</i>	<i>Solid</i>			<i>X</i>		<i>XX</i>		<i>4</i>	<i>Trip Blank C 16</i>
					<i>Solid</i>								<i>BFJ</i>
					<i>Solid</i>								
					<i>Solid</i>								
					<i>Solid</i>								
					<i>Solid</i>								
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological						☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify) <i>Cat B NYSDEC EDD</i>						Special Instructions/QC Requirements:							
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:						
Relinquished by: <i>[Signature]</i>		Date/Time: <i>10/22/20 10:40</i>		Company: <i>NYSDEC</i>		Received by: <i>[Signature]</i>		Date/Time: <i>10-22-2020 1040</i>		Company: <i>EETA</i>			
Relinquished by: <i>[Signature]</i>		Date/Time: <i>10-22-2020 1700</i>		Company: <i>EETA</i>		Received by:		Date/Time:		Company:			
Relinquished by: <i>[Signature]</i>		Date/Time: <i>10/23/20 1000</i>		Company:		Received by: <i>[Signature]</i>		Date/Time: <i>10/23/20 1000</i>		Company: <i>EETA</i>			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.: <i>CO present</i>				Cooler Temperature(s) °C and Other Remarks: <i>-5.380c IR#11</i>							

Albany
#224

Ver: 01/16/2019

Client Information Client Contact: Lynn Winterberger Company: New York State D.E.C. Address: 625 Broadway Division of Environmental Remediation City: Albany State, Zip: NY, 12233-7014 Phone: 518-402-9267 (Tel) Email: lynn.winterberger@dec.ny.gov Project Name: Norlite - Cohoes #401041 Site:				Sampler: <u>Brian Jankowsky</u> Phone:		Lab PM: Stone, Judy L E-Mail: Judy.Stone@Eurofinset.com		Carrier Tracking No(s): COC No: 480-150123-33366.7 Page: <u>4</u> of 7																			
				Due Date Requested:		Analysis Requested		Job #: <u>22262</u>																			
TAT Requested (days): <u>Standard</u>				Field Filtered Sample (Yes or No) ☐ Perform MS/MSD (Yes or No) ☐ PFC_IDA - PFAS, Standard List (21 Analytes) ☐ 6010D, 7196A, 7471B ☐ 6010D, 7470A ☐ 7196A - Hexavalent Chromium - 7196 ☐		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)																					
PO #: Call Out DMM R4 - 401041 WO #: Project #: 48022694 SSOW#:						Other:																					
Sample Identification				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFC_IDA - PFAS, Standard List (21 Analytes)		6010D, 7196A, 7471B		6010D, 7470A		7196A - Hexavalent Chromium - 7196		Total Number of containers		Special Instructions/Note:	
10-5011-102120				10/21/20		5:15		G		Solid		☒		☒		N		N		D		N		2		28	
10-5011-102120				10/21/20		5:15		G		Solid		☒		☒		N		N		D		N		2		28	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months				Deliverable Requested: I, II, III, IV, Other (specify) <u>Cat B, NYC DEC EDD</u>				Special Instructions/QC Requirements:															
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:															
Relinquished by: <u>[Signature]</u>				Date/Time: <u>10/22/20 10:40</u>				Company: <u>NYSDEC</u>				Received by: <u>[Signature]</u>				Date/Time: <u>10-22-2020 1040</u>				Company: <u>EETA</u>							
Relinquished by: <u>[Signature]</u>				Date/Time: <u>10-22-2020 1200</u>				Company: <u>EETA</u>				Received by:				Date/Time:				Company:							
Relinquished by: <u>[Signature]</u>				Date/Time: <u>10/23/20 1000</u>				Company:				Received by: <u>[Signature]</u>				Date/Time: <u>10/23/20 1000</u>				Company: <u>TA Edis</u>							
Custody Seals Intact: ☒ Yes ☐ No				Custody Seal No.: <u>1.5 present</u>				Cooler Temperature(s) °C and Other Remarks: <u>1-523.8°C IAT#</u>																			

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 221262

Number of Coolers: 2

IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	<u>4.5</u> °C	<u>4.5</u> °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	<u>3.8</u> °C	<u>3.8</u> °C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
<u>2</u>				<u>42</u>											
<u>25</u>				<u>42</u>											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____

Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____

Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

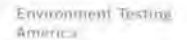
Initials: SV

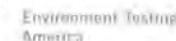
Date: 10/23/20



Environment Testing
America

Client Information (Sub Contract Lab)				Sampler:		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 320-199036.1													
Client Contact: Shipping/Receiving				Phone:		E-Mail: Judy.Stone@Eurofinset.com		State of Origin: New York		Page: Page 1 of 1													
Company: TestAmerica Laboratories, Inc.				Address: 777 New Durham Road, City: Edison State, Zip: NJ, 08817 Phone: 732-549-3900(Tel) 732-549-3679(Fax) Email:		Due Date Requested: 10/30/2020 TAT Requested (days): PO #: WO #: Project #: 48022694 SSOW#:		Accreditations Required (See note): NELAP - New York		Job #: 460-221262-1													
Project Name: Norlite - Cohoes #401041 Site:				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Analysis Requested										Preservation Codes:	
												Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 7196A/3060A Hexavalent Chromium - 7196 6010D/3050B TAL Metals 7471B/7471B_Prep Mercury Moisture Total Number of containers										A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Special Instructions/Note:											
S8B-SOIL-102120 (460-221262-22)				10/21/20		14:10 Eastern		Solid				1											
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.																							
Possible Hazard Identification												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Unconfirmed												☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months											
Deliverable Requested: I, II, III, IV, Other (specify)												Primary Deliverable Rank: 2											
Empty Kit Relinquished by:												Special Instructions/QC Requirements:											
Relinquished by: <i>Juan L</i>				Date/Time: 10/28/20 - 1630				Company: 6TASAC				Received by: <i>for</i>				Date/Time: 10/27/20 9:30				Company: <i>th</i>			
Relinquished by:				Date/Time:				Company:				Received by: <i>for ops</i>				Date/Time:				Company:			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Custody Seals Intact: Δ Yes Δ No				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: 3.3 ± 11															

Ver: 01/16/2019

Ver: 01/16/2019

Eurofins TestAmerica, Edison

777 New Durham Road

Edison, NJ 08817

Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:											
Client Contact:		Phone:		Stone, Judy L				460-59828.2											
Shipping/Receiving				E-Mail:		State of Origin:		Page:											
				Judy.Stone@Eurofinset.com		New York		Page 2 of 4											
Company:				Accreditations Required (See note):				Job #:											
TestAmerica Laboratories, Inc.				NELAP - New York				460-221262-1											
Address:		Due Date Requested:		Analysis Requested						Preservation Codes:									
880 Riverside Parkway,		10/30/2020																	
City:		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFC, IDA/Shake Bath, 14D PFAS, Standard List (21 Analytes)		PFC, IDA/3535_PFC PFAS, Standard List (21 Analytes)		Total Number of containers		Special Instructions/Note:					
West Sacramento																			
State, Zip:		PO #:		Matrix		ST=Soil, A=Air													
CA, 95605																			
Phone:		WO #:		Sample Type (C=Comp, G=grab)															
916-373-5600(Tel) 916-372-1059(Fax)																			
Email:		Project #:		Preservation Code:															
		48022694																	
Project Name:		SSOW#:																	
Norlite - Cohoes #401041																			
Site:																			
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Matrix		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFC, IDA/Shake Bath, 14D PFAS, Standard List (21 Analytes)		PFC, IDA/3535_PFC PFAS, Standard List (21 Analytes)		Total Number of containers		Special Instructions/Note:	
S2-SOIL-102120 (460-221262-8)		10/21/20		11:55 Eastern		Solid				X						1			
DUP1-SOIL-102120 (460-221262-9)		10/21/20		Eastern		Solid				X						1			
S3-SOIL-102120 (460-221262-10)		10/21/20		17:15 Eastern		Solid				X						1			
S4-SOIL-102120 (460-221262-11)		10/21/20		17:49 Eastern		Solid				X						1			
S11-SOIL-102120 (460-221262-12)		10/21/20		17:37 Eastern		Solid				X						1			
S12-SOIL-102120 (460-221262-13)		10/21/20		14:55 Eastern		Solid				X						1			
DUP2-SOIL-102120 (460-221262-14)		10/21/20		Eastern		Solid				X						1			
S1-SOIL-102120 (460-221262-15)		10/21/20		16:30 Eastern		Solid				X						1			
TB2-102120 (460-221262-16)		10/21/20		Eastern		Water						X				2			
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/ests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.																			
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Unconfirmed										☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months									
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements:									
Primary Deliverable Rank: 2																			
Empty Kit Relinquished by:										Method of Shipment:									
Relinquished by:										Date/Time:									
Relinquished by:										Date/Time:									
Relinquished by:										Date/Time:									
Custody Seals Intact:										Cooler Temperature(s) °C and Other Remarks:									
A Yes Δ No										1.2 cov 1.8									

Ver: 01/16/2019

Environment Testing
AMERICA

Client Information (Sub Contract Lab)						Sampler:						Lab PM: Stone, Judy L						Carrier Tracking No(s):						COC No: 460-59828.3											
Client Contact: Shipping/Receiving						Phone:						E-Mail: Judy.Stone@Eurofinset.com						State of Origin: New York						Page: Page 3 of 4											
Company: TestAmerica Laboratories, Inc.												Accreditations Required (See note) NELAP - New York												Job #: 460-221262-1											
Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605 Phone: 916-373-5600(Tel) 916-372-1059(Fax) Email:						Due Date Requested: 10/30/2020 TAT Requested (days): PO #: WO #:						Analysis Requested												Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:											
Project Name: Norlite - Cohoes #401041 Site:						Project #: 48022694 SSOW#:																													
Sample Identification - Client ID (Lab ID)						Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFC_IDA/Shake_Bath_14D PFAS, Standard List (21 Analytes)		PFC_IDA/3335_PFC PFAS, Standard List (21 Analytes)		Total Number of containers		Special Instructions/Note:											
S6A-SOIL-102120 (460-221262-17)						10/21/20		14:40 Eastern				Solid				X								1											
S6B-SOIL-102120 (460-221262-18)						10/21/20		14:50 Eastern				Solid				X								1											
S7A-SOIL-102120 (460-221262-19)						10/21/20		15:05 Eastern				Solid				X								1											
S7B-SOIL-102120 (460-221262-20)						10/21/20		15:15 Eastern				Solid				X								1											
S8A-SOIL-102120 (460-221262-21)						10/21/20		14:00 Eastern				Solid				X								1											
S8B-SOIL-102120 (460-221262-22)						10/21/20		14:10 Eastern				Solid				X								2											
S9A-SOIL-102120 (460-221262-23)						10/21/20		15:30 Eastern				Solid				X								1											
S9B-SOIL-102120 (460-221262-24)						10/21/20		15:45 Eastern				Solid				X								1											
S9B-SOIL-102120 (460-221262-24MS)						10/21/20		15:45 Eastern		MS		Solid				X								1											
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.																																			
Possible Hazard Identification														Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																					
Unconfirmed														☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																					
Deliverable Requested: I, II, III, IV, Other (specify)														Primary Deliverable Rank: 2																					
Empty Kit Relinquished by:														Special Instructions/QC Requirements:																					
Date:														Time:																					
Relinquished by: [Signature]														Method of Shipment:																					
Date/Time: 10/26/20 1900														Received by: [Signature] Date/Time: 10/27/20 950																					
Relinquished by:														Company: [Signature] Received by: Date/Time: Company:																					
Relinquished by:														Company: Received by: Date/Time: Company:																					
Custody Seals Intact: ☒ Yes ☐ No														Custody Seal No.: 1134166																					
														Cooler Temperature(s) °C and Other Remarks: 1.3 ice 1.8																					

 eurofins | Environment Testing
America

[illegible]



Environment Testing
TestAmerica

Sacramento Sample Receiving Notes



460-221262 Field Sheet

Tracking #: 8142 9456 6408

SO LPO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Job: _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: AK11 Corr. Factor: (+/-) 0.5 °C

Ice / Wet / Gel _____ Other _____

Cooler Custody Seal: 1134166

Cooler ID: _____

Temp Observed: 1.3 °C Corrected: 1.8 °C

From: Temp Blank ☐ Sample ☒

	Yes	No	NA
Opening/Processing The Shipment			
Cooler compromised/tampered with?	☐	☒	☐
Cooler Temperature is acceptable?	☒	☐	☐

Initials: ST Date: 10/27/20

	Yes	No	NA
Unpacking/Labeling The Samples			
CoC is complete w/o discrepancies?	☒	☐	☐
Samples compromised/tampered with?	☐	☒	☐
Sample containers have legible labels?	☒	☐	☐
Sample custody seal?	☐	☐	☒
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided?	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Samples w/o discrepancies?	☒	☒	☐
Zero headspace?	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [Signature] Date: 10/27/20

Notes: SAMPLES RECEIVED
NOT ON COC. NCM
WRITTEN WITH THE LIST
OF SAMPLES RECEIVED.

10/27/20 FILED.
DISREGARD

Trizma Lot #(s): _____

	Yes	No	NA
Login Completion			
Receipt Temperature on COC?	☒	☐	☐
Samples received within hold time?	☒	☐	☐
NCM Filed?	☒	☐	☒
Log Release checked in TALS?	☐	☐	☒

Initials: [Signature] Date: 10/27/20

Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 460-221262-1

Login Number: 221262

List Source: Eurofins T stAmerica, Edison

List Number: 1

Creator: Rivera, Kenneth

Question	Answer	Comment
radioactivity either was not measured or, if measured, is at or below background	/A	
The cooler's custody seal, if present, is intact.	True	custody seal p esent
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)..	False	
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 equested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	/A	

Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 460-221262-1

Login Number: 221262

List Number: 2

Creator: Saephan, Kae C

List Source: Eurofins T stAmerica, Sacramento

List Creation: 10/27/20 01:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1134166
Sample custody seals, if present, are intact.	/A	
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	b: 1.3c corr: 1.8c
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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	/A	
There is sufficient vol. for all requested analyses, incl. any equested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	/A	

Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 460-221262-1

Login Number: 221262

List Number: 3

Creator: Saephan, Kae C

List Source: Eurofins T stAmerica, Sacramento

List Creation: 10/27/20 02:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1134166
Sample custody seals, if present, are intact.	/A	
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	b: 1.3c corr: 1.8c
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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	/A	
There is sufficient vol. for all requested analyses, incl. any equested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-221262-2

Client Project/Site: Norlite - Cohoes #401041

For:

New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Lynn M Winterberger



Authorized for release by:
11/5/2020 2:22:50 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Table of Contents

Cover Page 1

Table of Contents 2

Definitions/Glossary 3

Case Narrative 4

Detection Summary 5

Client Sample Results 7

Isotope Dilution Summary 13

QC Sample Results 15

QC Association Summary 22

Lab Chronicle 23

Certification Summary 24

Method Summary 26

Sample Summary 27

Chain of Custody 28

Field Data Sheets 39

Receipt Checklists 40



Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Qualifiers

LCMS

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*5	Isotope dilution analyte is outside acceptance limits.
B	Compound was found in the blank and sample.
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
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: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

ID: 460-221262-2

Laboratory: Eurofins TestAmerica, Edison

Narrative

Narrative 460-221262-2

Comments

This report provides the data for the TOPS assay including the Total Oxidation Precursor summary in the Client Results section.

Receipt

The samples were received on 10/23/2020 10:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.8° C and 4.5° C.

LCMS

Method 537 (modified): The labeled analyte M2-4:2FTS is converted to PFBA during the oxidation step of the TOP assay. The PFBA result in the Post-Treatment Method Blank (MB) indicates how much of a field sample's Post-Treatment PFBA result is contributed by the Reverse Surrogate, when adjusted for dilution factors. (MB 320-426024/1-A)

Method 537 (modified): Zero percent recovery of precursor analytes (4:2FTS, 6:2FTS, 8:2FTS, FOSA, NMeFOSAA, and NEtFOSAA) and enhanced recoveries of PFCAs is observed in the Post-Treatment Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) associated with these samples, consistent with the expected oxidation of precursor analytes. (LCS 320-426024/2-A) and (LCSD 320-426024/3-A)

Method 537 (modified): The labeled analyte M2-4:2FTS is employed in this analysis as a "Reverse Surrogate". It is used to monitor the oxidation efficiency of the TOP assay. This analyte is fortified into all sample fractions prior to any processing. The recovery of this analyte should be 0% in Post-Treatment fractions, indicating complete oxidation of the sample. S15-SOIL-102120 (460-221262-4), S8B-SOIL-102120 (460-221262-22), (LCS 320-426022/2-A), (LCS 320-426024/2-A), (LCSD 320-426022/3-A), (LCSD 320-426024/3-A), (MB 320-426022/1-A) and (MB 320-426024/1-A)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS and M2-8:2 FTS in the following sample: S15-SOIL-102120 (460-221262-4). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS in the following sample: S8B-SOIL-102120 (460-221262-22). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. S15-SOIL-102120 (460-221262-4)

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

Organic Prep

Method TOP Post-Prep: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: S15-SOIL-102120 (460-221262-4) and S8B-SOIL-102120 (460-221262-22). The reporting limits (RLs) have been adjusted proportionately.

Method TOP Post-Prep: There was a layer of water on sample surface: S8B-SOIL-102120 (460-221262-22).

Method TOP Pre-Prep: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: S15-SOIL-102120 (460-221262-4) and S8B-SOIL-102120 (460-221262-22). The reporting limits (RLs) have been adjusted proportionately.

Method TOP Pre-Prep: There was a layer of water on sample surface: S8B-SOIL-102120 (460-221262-22).

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.25	J	.80	.1	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorohexanoic acid (PFHxA)	.18	J	.80	.18	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluoroheptanoic acid (PFHpA)	.22	J	.80	.12	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorooctanoic acid (PFOA)	.83		.80	.35	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorononanoic acid (PFNA)	.36	J	.80	.14	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorodecanoic acid (PFDA)	.32	J	.80	.088	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluoroundecanoic acid (PFUnA)	.31	J	.80	.14	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorooctanesulfonic acid (PFOS)	.1	J	.0	.80	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorobutanoic acid (PFBA)	.2	* B	.80	.1	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorohexanoic acid (PFHxA)	.42	J I	.80	.18	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluoroheptanoic acid (PFHpA)	.24	J	.80	.12	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorooctanoic acid (PFOA)	.80	*	.80	.35	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorononanoic acid (PFNA)	.36	J	.80	.14	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorodecanoic acid (PFDA)	.29	J	.80	.088	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluoroundecanoic acid (PFUnA)	.22	J	.80	.14	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorooctanesulfonic acid (PFOS)	.95	J	.0	.80	ug/Kg		✱	537 (modified)	Post-Treatme nt
PFBA	.98				ug/Kg			Total PFCA-Dif	Total/NA
PFPA	.00				ug/Kg			Total PFCA-Dif	Total/NA
PFHxA	.24				ug/Kg			Total PFCA-Dif	Total/NA
PFHpA	.026				ug/Kg			Total PFCA-Dif	Total/NA
PFOA	.00				ug/Kg			Total PFCA-Dif	Total/NA
PFNA	.00				ug/Kg			Total PFCA-Dif	Total/NA
Total PFCA	.2				ug/Kg			Total PFCA-Dif	Total/NA
Total PFCA	.8				ug/Kg			Total PFCA-Sum	Pre-Treatme nt
Total PFCA	3.0				ug/Kg			Total PFCA-Sum	Post-Treatme nt

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	.16	J	.62	.087	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluoropentanoic acid (PFPeA)	.27	J	.62	.24	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorohexanoic acid (PFHxA)	.23	J	.62	.14	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluoroheptanoic acid (PFHpA)	.13	J	.62	.091	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorooctanoic acid (PFOA)	.40	J	.62	.27	ug/Kg		✱	537 (modified)	Pre-Treatme nt

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Client Sample ID: S8B-SOIL-102120 (Continued)

Lab Sample ID: 460-221262-22

nalyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	.9		.62	.1	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorodecanoic acid (PFDA)	.80		.62	.068	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluoroundecanoic acid (PFUnA)	.2		.62	.1	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorododecanoic acid (PFDoA)	.36	J	.62	.21	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorotridecanoic acid (PFTriA)	.22	J	.62	.16	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorobutanesulfonic acid (PFBS)	.14	J	.62	.078	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorooctanesulfonic acid (PFOS)	3.9		.6	.62	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorodecanesulfonic acid (PFDS)	4.8		.62	.12	ug/Kg		✱	537 (modified)	Pre-Treatme nt
Perfluorobutanoic acid (PFBA)	.2	* B	.62	.087	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluoropentanoic acid (PFPeA)	.50	J	.62	.24	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorohexanoic acid (PFHxA)	.56	J	.62	.14	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluoroheptanoic acid (PFHpA)	.36	J	.62	.090	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorooctanoic acid (PFOA)	.2	*	.62	.27	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorononanoic acid (PFNA)	.9		.62	.1	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorodecanoic acid (PFDA)	.83		.62	.068	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluoroundecanoic acid (PFUnA)	.0		.62	.1	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorododecanoic acid (PFDoA)	.44	J	.62	.21	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorotridecanoic acid (PFTriA)	.35	J	.62	.16	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorotetradecanoic acid (PFTeA)	.19	J	.62	.17	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorobutanesulfonic acid (PFBS)	.18	J	.62	.078	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorooctanesulfonic acid (PFOS)	3.6		.5	.62	ug/Kg		✱	537 (modified)	Post-Treatme nt
Perfluorodecanesulfonic acid (PFDS)	4.1		.62	.12	ug/Kg		✱	537 (modified)	Post-Treatme nt
PFBA	.1				ug/Kg			Total PFCA-Dif	Total/NA
PFPA	.23				ug/Kg			Total PFCA-Dif	Total/NA
PFHxA	.33				ug/Kg			Total PFCA-Dif	Total/NA
PFHpA	.24				ug/Kg			Total PFCA-Dif	Total/NA
PFOA	.79				ug/Kg			Total PFCA-Dif	Total/NA
PFNA	.030				ug/Kg			Total PFCA-Dif	Total/NA
Total PFCA	3.6				ug/Kg			Total PFCA-Dif	Total/NA
Total PFCA	3.1				ug/Kg			Total PFCA-Sum	Pre-Treatme nt
Total PFCA	.7				ug/Kg			Total PFCA-Sum	Post-Treatme nt

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Total Oxidation Precursors

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

TestAmerica Job ID: 460-221262-2

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4
Matrix: Solid

Analyte	Pre-Treatment Method			Post-Treatment Method			Difference ¹	
	537 (modified)			537 (modified)				
	Result	Qualifier	Unit	Result	Qualifier	Unit	Result	Unit
Perfluorobutanoic acid (PFBA)	0.25		ug/Kg	1.2		ug/Kg	0.98	ug/Kg
Perfluoropentanoic acid (PFPeA)	ND		ug/Kg	ND		ug/Kg	0.00	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.18		ug/Kg	0.42		ug/Kg	0.24	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.22		ug/Kg	0.24		ug/Kg	0.026	ug/Kg
Perfluorooctanoic acid (PFOA)	0.83		ug/Kg	0.80		ug/Kg	0.00	ug/Kg
Perfluorononanoic acid (PFNA)	0.36		ug/Kg	0.36		ug/Kg	0.00	ug/Kg
Total PFCA	1.8		ug/Kg	3.0		ug/Kg	1.2	ug/Kg

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22
Matrix: Solid

Analyte	Pre-Treatment Method			Post-Treatment Method			Difference ¹	
	537 (modified)			537 (modified)				
	Result	Qualifier	Unit	Result	Qualifier	Unit	Result	Unit
Perfluorobutanoic acid (PFBA)	0.16		ug/Kg	2.2		ug/Kg	2.1	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.27		ug/Kg	0.50		ug/Kg	0.23	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.23		ug/Kg	0.56		ug/Kg	0.33	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.13		ug/Kg	0.36		ug/Kg	0.24	ug/Kg
Perfluorooctanoic acid (PFOA)	0.40		ug/Kg	1.2		ug/Kg	0.79	ug/Kg
Perfluorononanoic acid (PFNA)	1.9		ug/Kg	1.9		ug/Kg	0.030	ug/Kg
Total PFCA	3.1		ug/Kg	6.7		ug/Kg	3.6	ug/Kg

¹ Difference = Post-Treatment - Pre-Treatment

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.7

Method: 537 (modified) - Fluorinated Alkyl Substances - Pre-Treatment

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.25	J	.80	.1	ug/Kg	✱	7/20 20:12	23:03	
Perfluoropentanoic acid (PFPeA)	ND		.80	.30	ug/Kg	✱	7/20 20:12	23:03	
Perfluorohexanoic acid (PFHxA)	0.18	J	.80	.18	ug/Kg	✱	7/20 20:12	23:03	
Perfluoroheptanoic acid (PFHpA)	0.22	J	.80	.12	ug/Kg	✱	7/20 20:12	23:03	
Perfluorooctanoic acid (PFOA)	0.83		.80	.35	ug/Kg	✱	7/20 20:12	23:03	
Perfluorononanoic acid (PFNA)	0.36	J	.80	.14	ug/Kg	✱	7/20 20:12	23:03	
Perfluorodecanoic acid (PFDA)	0.32	J	.80	.088	ug/Kg	✱	7/20 20:12	23:03	
Perfluoroundecanoic acid (PFUnA)	0.31	J	.80	.14	ug/Kg	✱	7/20 20:12	23:03	
Perfluorododecanoic acid (PFDoA)	ND		.80	.27	ug/Kg	✱	7/20 20:12	23:03	
Perfluorotridecanoic acid (PFTriA)	ND		.80	.21	ug/Kg	✱	7/20 20:12	23:03	
Perfluorotetradecanoic acid (PFTeA)	ND		.80	.22	ug/Kg	✱	7/20 20:12	23:03	
Perfluorobutanesulfonic acid (PFBS)	ND		.80	.10	ug/Kg	✱	7/20 20:12	23:03	
Perfluorohexanesulfonic acid (PFHxS)	ND		.80	.12	ug/Kg	✱	7/20 20:12	23:03	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.80	.14	ug/Kg	✱	7/20 20:12	23:03	
Perfluorooctanesulfonic acid (PFOS)	1.1	J	.0	.80	ug/Kg	✱	7/20 20:12	23:03	
Perfluorodecanesulfonic acid (PFDS)	ND		.80	.16	ug/Kg	✱	7/20 20:12	23:03	
Perfluorooctanesulfonamide (FOSA)	ND		.80	.33	ug/Kg	✱	7/20 20:12	23:03	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		8.0	.6	ug/Kg	✱	7/20 20:12	23:03	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		8.0	.5	ug/Kg	✱	7/20 20:12	23:03	
:2 FTS	ND		8.0	.61	ug/Kg	✱	7/20 20:12	23:03	
8:2 FTS	ND		8.0	.0	ug/Kg	✱	7/20 20:12	23:03	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		150	10/27/20 20:12	11/02/20 23:03	1
13C5 PFPeA	94		150	10/27/20 20:12	11/02/20 23:03	1
13C2 PFHxA	97		150	10/27/20 20:12	11/02/20 23:03	1
13C4 PFHpA	104		150	10/27/20 20:12	11/02/20 23:03	1
13C4 PFOA	99		150	10/27/20 20:12	11/02/20 23:03	1
13C5 PFNA	104		150	10/27/20 20:12	11/02/20 23:03	1
13C2 PFDA	99		150	10/27/20 20:12	11/02/20 23:03	1
13C2 PFUnA	100		150	10/27/20 20:12	11/02/20 23:03	1
13C2 PFDoA	78		150	10/27/20 20:12	11/02/20 23:03	1
13C2 PFTeDA	90		150	10/27/20 20:12	11/02/20 23:03	1
13C3 PFBS	110		150	10/27/20 20:12	11/02/20 23:03	1
18O2 PFHxS	106		150	10/27/20 20:12	11/02/20 23:03	1
13C4 PFOS	103		150	10/27/20 20:12	11/02/20 23:03	1
13C8 FOSA	104		150	10/27/20 20:12	11/02/20 23:03	1
d3-NMeFOSAA	107		150	10/27/20 20:12	11/02/20 23:03	1
NEtFOSAA	110		150	10/27/20 20:12	11/02/20 23:03	1
M2-6:2 FTS	159	*5	150	10/27/20 20:12	11/02/20 23:03	1
M2-8:2 FTS	153	*5	150	10/27/20 20:12	11/02/20 23:03	1
M2-4:2 FTS	30	*5	150	10/27/20 20:12	11/02/20 23:03	1

Method: 537 (modified) - Fluorinated Alkyl Substances - Post-Treatment

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.2	* B	.80	.1	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluoropentanoic acid (PFPeA)	ND		.80	.30	ug/Kg	✱	7/20 20:17	3/20 00:19	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.7

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

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.42	J I	.80	.18	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluoroheptanoic acid (PFHpA)	0.24	J	.80	.12	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorooctanoic acid (PFOA)	0.80	*	.80	.35	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorononanoic acid (PFNA)	0.36	J	.80	.14	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorodecanoic acid (PFDA)	0.29	J	.80	.088	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluoroundecanoic acid (PFUnA)	0.22	J	.80	.14	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorododecanoic acid (PFDoA)	ND		.80	.27	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorotridecanoic acid (PFTriA)	ND		.80	.21	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorotetradecanoic acid (PFTeA)	ND		.80	.22	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorobutanesulfonic acid (PFBS)	ND		.80	.10	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorohexanesulfonic acid (PFHxS)	ND		.80	.12	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.80	.14	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorooctanesulfonic acid (PFOS)	0.95	J	.0	.80	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorodecanesulfonic acid (PFDS)	ND		.80	.16	ug/Kg	✱	7/20 20:17	3/20 00:19	
Perfluorooctanesulfonamide (FOSA)	ND		.80	.33	ug/Kg	✱	7/20 20:17	3/20 00:19	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		8.0	.6	ug/Kg	✱	7/20 20:17	3/20 00:19	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		8.0	.5	ug/Kg	✱	7/20 20:17	3/20 00:19	
:2 FTS	ND		8.0	.61	ug/Kg	✱	7/20 20:17	3/20 00:19	
8:2 FTS	ND		8.0	.0	ug/Kg	✱	7/20 20:17	3/20 00:19	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		150	10/27/20 20:17	11/03/20 00:19	1
13C5 PFPeA	96		150	10/27/20 20:17	11/03/20 00:19	1
13C2 PFHxA	96		150	10/27/20 20:17	11/03/20 00:19	1
13C4 PFHpA	104		150	10/27/20 20:17	11/03/20 00:19	1
13C4 PFOA	98		150	10/27/20 20:17	11/03/20 00:19	1
13C5 PFNA	99		150	10/27/20 20:17	11/03/20 00:19	1
13C2 PFDA	90		150	10/27/20 20:17	11/03/20 00:19	1
13C2 PFUnA	92		150	10/27/20 20:17	11/03/20 00:19	1
13C2 PFDoA	88		150	10/27/20 20:17	11/03/20 00:19	1
13C2 PFTeDA	89		150	10/27/20 20:17	11/03/20 00:19	1
13C3 PFBS	102		150	10/27/20 20:17	11/03/20 00:19	1
18O2 PFHxS	106		150	10/27/20 20:17	11/03/20 00:19	1
13C4 PFOS	99		150	10/27/20 20:17	11/03/20 00:19	1
13C8 FOSA	102		150	10/27/20 20:17	11/03/20 00:19	1
d3-NMeFOSAA	88		150	10/27/20 20:17	11/03/20 00:19	1
NEtFOSAA	98		150	10/27/20 20:17	11/03/20 00:19	1
M2-6:2 FTS	113		150	10/27/20 20:17	11/03/20 00:19	1
M2-8:2 FTS	111		150	10/27/20 20:17	11/03/20 00:19	1
M2-4:2 FTS			10	10/27/20 20:17	11/03/20 00:19	1

Method: Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
PFBA	0.98				ug/Kg			4/20 10:37	
PFPA	0.00				ug/Kg			4/20 10:37	
PFHxA	0.24				ug/Kg			4/20 10:37	
PFHpA	0.026				ug/Kg			4/20 10:37	

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.7

Method: Total PFCA-Dif - Total PFCA (Treatment Difference) (Continued)

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
PFOA	0.00				ug/Kg			4/20 10:37	
PFNA	0.00				ug/Kg			4/20 10:37	
Total PFCA	1.2				ug/Kg			4/20 10:37	

Method: Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	1.8				ug/Kg			4/20 10:34	

Method: Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	3.0				ug/Kg			4/20 10:36	

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.6

Method: 537 (modified) - Fluorinated Alkyl Substances - Pre-Treatment

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.16	J	.62	.087	ug/Kg	✱	7/20 20:12	23:13	
Perfluoropentanoic acid (PFPeA)	0.27	J	.62	.24	ug/Kg	✱	7/20 20:12	23:13	
Perfluorohexanoic acid (PFHxA)	0.23	J	.62	.14	ug/Kg	✱	7/20 20:12	23:13	
Perfluoroheptanoic acid (PFHpA)	0.13	J	.62	.091	ug/Kg	✱	7/20 20:12	23:13	
Perfluorooctanoic acid (PFOA)	0.40	J	.62	.27	ug/Kg	✱	7/20 20:12	23:13	
Perfluorononanoic acid (PFNA)	1.9		.62	.1	ug/Kg	✱	7/20 20:12	23:13	
Perfluorodecanoic acid (PFDA)	0.80		.62	.068	ug/Kg	✱	7/20 20:12	23:13	
Perfluoroundecanoic acid (PFUnA)	1.2		.62	.1	ug/Kg	✱	7/20 20:12	23:13	
Perfluorododecanoic acid (PFDoA)	0.36	J	.62	.21	ug/Kg	✱	7/20 20:12	23:13	
Perfluorotridecanoic acid (PFTriA)	0.22	J	.62	.16	ug/Kg	✱	7/20 20:12	23:13	
Perfluorotetradecanoic acid (PFTeA)	ND		.62	.17	ug/Kg	✱	7/20 20:12	23:13	
Perfluorobutanesulfonic acid (PFBS)	0.14	J	.62	.078	ug/Kg	✱	7/20 20:12	23:13	
Perfluorohexanesulfonic acid (PFHxS)	ND		.62	.097	ug/Kg	✱	7/20 20:12	23:13	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.62	.1	ug/Kg	✱	7/20 20:12	23:13	
Perfluorooctanesulfonic acid (PFOS)	3.9		.6	.62	ug/Kg	✱	7/20 20:12	23:13	
Perfluorodecanesulfonic acid (PFDS)	4.8		.62	.12	ug/Kg	✱	7/20 20:12	23:13	
Perfluorooctanesulfonamide (FOSA)	ND		.62	.26	ug/Kg	✱	7/20 20:12	23:13	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.2	.2	ug/Kg	✱	7/20 20:12	23:13	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.2	.2	ug/Kg	✱	7/20 20:12	23:13	
:2 FTS	ND		.2	.47	ug/Kg	✱	7/20 20:12	23:13	
8:2 FTS	ND		.2	.78	ug/Kg	✱	7/20 20:12	23:13	

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98		150	10/27/20 20:12	11/02/20 23:13	1
13C5 PFPeA	90		150	10/27/20 20:12	11/02/20 23:13	1
13C2 PFHxA	102		150	10/27/20 20:12	11/02/20 23:13	1
13C4 PFHpA	103		150	10/27/20 20:12	11/02/20 23:13	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.6

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	94		150	10/27/20 20:12	11/02/20 23:13	1
13C5 PFNA	103		150	10/27/20 20:12	11/02/20 23:13	1
13C2 PFDA	97		150	10/27/20 20:12	11/02/20 23:13	1
13C2 PFUnA	106		150	10/27/20 20:12	11/02/20 23:13	1
13C2 PFDoA	87		150	10/27/20 20:12	11/02/20 23:13	1
13C2 PFTeDA	92		150	10/27/20 20:12	11/02/20 23:13	1
13C3 PFBS	103		150	10/27/20 20:12	11/02/20 23:13	1
18O2 PFHxS	106		150	10/27/20 20:12	11/02/20 23:13	1
13C4 PFOS	101		150	10/27/20 20:12	11/02/20 23:13	1
13C8 FOSA	100		150	10/27/20 20:12	11/02/20 23:13	1
d3-NMeFOSAA	115		150	10/27/20 20:12	11/02/20 23:13	1
NEtFOSAA	106		150	10/27/20 20:12	11/02/20 23:13	1
M2-6:2 FTS	151	*5	150	10/27/20 20:12	11/02/20 23:13	1
M2-8:2 FTS	132		150	10/27/20 20:12	11/02/20 23:13	1
M2-4:2 FTS	197	*5	150	10/27/20 20:12	11/02/20 23:13	1

Method: 537 (modified) - Fluorinated Alkyl Substances - Post-Treatment

Analyte	esult	Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.2	* B	.62	.087	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluoropentanoic acid (PFPeA)	0.50	J	.62	.24	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorohexanoic acid (PFHxA)	0.56	J	.62	.14	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluoroheptanoic acid (PFHpA)	0.36	J	.62	.090	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorooctanoic acid (PFOA)	1.2	*	.62	.27	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorononanoic acid (PFNA)	1.9		.62	.1	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorodecanoic acid (PFDA)	0.83		.62	.068	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluoroundecanoic acid (PFUnA)	1.0		.62	.1	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorododecanoic acid (PFDoA)	0.44	J	.62	.21	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorotridecanoic acid (PFTriA)	0.35	J	.62	.16	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorotetradecanoic acid (PFTeA)	0.19	J	.62	.17	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorobutanesulfonic acid (PFBS)	0.18	J	.62	.078	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorohexanesulfonic acid (PFHxS)	ND		.62	.096	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.62	.1	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorooctanesulfonic acid (PFOS)	3.6		.5	.62	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorodecanesulfonic acid (PFDS)	4.1		.62	.12	ug/Kg	☼	7/20 20:17	3/20 00:28	
Perfluorooctanesulfonamide (FOSA)	ND		.62	.26	ug/Kg	☼	7/20 20:17	3/20 00:28	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		.2	.2	ug/Kg	☼	7/20 20:17	3/20 00:28	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		.2	.2	ug/Kg	☼	7/20 20:17	3/20 00:28	
:2 FTS	ND		.2	.47	ug/Kg	☼	7/20 20:17	3/20 00:28	
8:2 FTS	ND		.2	.78	ug/Kg	☼	7/20 20:17	3/20 00:28	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	100		150				10/27/20 20:17	11/03/20 00:28	1
13C5 PFPeA	103		150				10/27/20 20:17	11/03/20 00:28	1
13C2 PFHxA	99		150				10/27/20 20:17	11/03/20 00:28	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.6

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	105		150	10/27/20 20:17	11/03/20 00:28	1
13C4 PFOA	101		150	10/27/20 20:17	11/03/20 00:28	1
13C5 PFNA	105		150	10/27/20 20:17	11/03/20 00:28	1
13C2 PFDA	93		150	10/27/20 20:17	11/03/20 00:28	1
13C2 PFUnA	104		150	10/27/20 20:17	11/03/20 00:28	1
13C2 PFDoA	83		150	10/27/20 20:17	11/03/20 00:28	1
13C2 PFTeDA	85		150	10/27/20 20:17	11/03/20 00:28	1
13C3 PFBS	112		150	10/27/20 20:17	11/03/20 00:28	1
18O2 PFHxS	112		150	10/27/20 20:17	11/03/20 00:28	1
13C4 PFOS	106		150	10/27/20 20:17	11/03/20 00:28	1
13C8 FOSA	101		150	10/27/20 20:17	11/03/20 00:28	1
d3-NMeFOSAA	93		150	10/27/20 20:17	11/03/20 00:28	1
NEtFOSAA	94		150	10/27/20 20:17	11/03/20 00:28	1
M2-6:2 FTS	115		150	10/27/20 20:17	11/03/20 00:28	1
M2-8:2 FTS	101		150	10/27/20 20:17	11/03/20 00:28	1
M2-4:2 FTS			10	10/27/20 20:17	11/03/20 00:28	1

Method: Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
PFBA	2.1				ug/Kg			4/20 10:37	
PFPA	0.23				ug/Kg			4/20 10:37	
PFHxA	0.33				ug/Kg			4/20 10:37	
PFHpA	0.24				ug/Kg			4/20 10:37	
PFOA	0.79				ug/Kg			4/20 10:37	
PFNA	0.030				ug/Kg			4/20 10:37	
Total PFCA	3.6				ug/Kg			4/20 10:37	

Method: Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	3.1				ug/Kg			4/20 10:34	

Method: Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	6.7				ug/Kg			4/20 10:36	

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Pre-Treatment

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
460-221262-4	S15-SOIL-102120		94	97	4	99	4	99	
460-221262-22	S8B-SOIL-102120	98	90		3	94	3	97	
LCS 320-426022/2-A	Lab Control Sample	4	3	98		3	4	98	92
LCSD 320-426022/3-A	Lab Control Sample Dup		98	95			96	85	96
MB 320-426022/1-A	Method Blank		97	97	8			95	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFO (25-150)	d5NEFO (25-150)
460-221262-4	S15-SOIL-102120	78	90			3	4	7	
460-221262-22	S8B-SOIL-102120	87	92	3				5	
LCS 320-426022/2-A	Lab Control Sample	82	83		3		95	98	95
LCSD 320-426022/3-A	Lab Control Sample Dup	94	87	7	7			95	92
MB 320-426022/1-A	Method Blank	94	97	7	7	8	5	3	

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)	M242FTS (25-150)					
460-221262-4	S15-SOIL-102120	59 *5	53 *5	30 *5					
460-221262-22	S8B-SOIL-102120	51 *5	32	97 *5					
LCS 320-426022/2-A	Lab Control Sample	30		5					
LCSD 320-426022/3-A	Lab Control Sample Dup	4	3						
MB 320-426022/1-A	Method Blank	34							

rrrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFO = d3-NMeFOSAA
d5NEFO = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
M242FTS = M2-4:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Post-Treatment

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
460-221262-4	S15-SOIL-102120	96	96	96	4	98	99	90	92

Eurofins TestAmerica, Edison

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 460-221262-2

Project/Site: Norlite - Cohoes #401041

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

Matrix: Solid

Prep Type: Post-Treatment

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
460-221262-22	S8B-SOIL-102120		3	99	5		5	93	4
LCS 320-426024/2-A	Lab Control Sample		4		3		4		97
LCSD 320-426024/3-A	Lab Control Sample Dup	97	7			99	9	99	
MB 320-426024/1-A	Method Blank	98	98	3	99	96	4	90	92

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFO (25-150)	d5NEFO (25-150)
460-221262-4	S15-SOIL-102120	88	89			99		88	98
460-221262-22	S8B-SOIL-102120	83	85					93	94
LCS 320-426024/2-A	Lab Control Sample	94	96				99	97	9
LCSD 320-426024/3-A	Lab Control Sample Dup	91	89						94
MB 320-426024/1-A	Method Blank	90	80		5	5	98	92	91

		Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)	M242FTS (0-10)
460-221262-4	S15-SOIL-102120	3		
460-221262-22	S8B-SOIL-102120	5		
LCS 320-426024/2-A	Lab Control Sample		8	
LCSD 320-426024/3-A	Lab Control Sample Dup	9	98	
MB 320-426024/1-A	Method Blank	9	9	

rogate Legend

PFBA = 13C4 PFBA
 PFPeA = 13C5 PFPeA
 PFHxA = 13C2 PFHxA
 C4PFHA = 13C4 PFHpA
 PFOA = 13C4 PFOA
 PFNA = 13C5 PFNA
 PFDA = 13C2 PFDA
 PFUnA = 13C2 PFUnA
 PFDaA = 13C2 PFDaA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 PFHxS = 18O2 PFHxS
 PFOS = 13C4 PFOS
 PFOSA = 13C8 FOSA
 d3NMFO = d3-NMeFOSAA
 d5NEFO = d5-NEtFOSAA
 M262FTS = M2-6:2 FTS
 M282FTS = M2-8:2 FTS
 M242FTS = M2-4:2 FTS

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-426022/1-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Method Blank

Prep Type: Pre-Treatment

Prep Batch: 426022

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		.50	.070	ug/Kg		7/20 20:12	22:35	
Perfluoropentanoic acid (PFPeA)	ND		.50	.19	ug/Kg		7/20 20:12	22:35	
Perfluorohexanoic acid (PFHxA)	ND		.50	.1	ug/Kg		7/20 20:12	22:35	
Perfluoroheptanoic acid (PFHpA)	ND		.50	.073	ug/Kg		7/20 20:12	22:35	
Perfluorooctanoic acid (PFOA)	ND		.50	.22	ug/Kg		7/20 20:12	22:35	
Perfluorononanoic acid (PFNA)	ND		.50	.090	ug/Kg		7/20 20:12	22:35	
Perfluorodecanoic acid (PFDA)	ND		.50	.055	ug/Kg		7/20 20:12	22:35	
Perfluoroundecanoic acid (PFUnA)	ND		.50	.090	ug/Kg		7/20 20:12	22:35	
Perfluorododecanoic acid (PFDoA)	ND		.50	.17	ug/Kg		7/20 20:12	22:35	
Perfluorotridecanoic acid (PFTriA)	ND		.50	.13	ug/Kg		7/20 20:12	22:35	
Perfluorotetradecanoic acid (PFTeA)	ND		.50	.14	ug/Kg		7/20 20:12	22:35	
Perfluorobutanesulfonic acid (PFBS)	ND		.50	.063	ug/Kg		7/20 20:12	22:35	
Perfluorohexanesulfonic acid (PFHxS)	ND		.50	.078	ug/Kg		7/20 20:12	22:35	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.50	.088	ug/Kg		7/20 20:12	22:35	
Perfluorooctanesulfonic acid (PFOS)	ND		.3	.50	ug/Kg		7/20 20:12	22:35	
Perfluorodecanesulfonic acid (PFDS)	ND		.50	.098	ug/Kg		7/20 20:12	22:35	
Perfluorooctanesulfonamide (FOSA)	ND		.50	.21	ug/Kg		7/20 20:12	22:35	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	.98	ug/Kg		7/20 20:12	22:35	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	.93	ug/Kg		7/20 20:12	22:35	
:2 FTS	ND		5.0	.38	ug/Kg		7/20 20:12	22:35	
8:2 FTS	ND		5.0	.63	ug/Kg		7/20 20:12	22:35	

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA	101		150	10/27/20 20:12	11/02/20 22:35	1
13C5 PFPeA	97		150	10/27/20 20:12	11/02/20 22:35	1
13C2 PFHxA	97		150	10/27/20 20:12	11/02/20 22:35	1
13C4 PFHpA	108		150	10/27/20 20:12	11/02/20 22:35	1
13C4 PFOA	101		150	10/27/20 20:12	11/02/20 22:35	1
13C5 PFNA	102		150	10/27/20 20:12	11/02/20 22:35	1
13C2 PFDA	95		150	10/27/20 20:12	11/02/20 22:35	1
13C2 PFUnA	98		150	10/27/20 20:12	11/02/20 22:35	1
13C2 PFDoA	94		150	10/27/20 20:12	11/02/20 22:35	1
13C2 PFTeDA	97		150	10/27/20 20:12	11/02/20 22:35	1
13C3 PFBS	107		150	10/27/20 20:12	11/02/20 22:35	1
18O2 PFHxS	107		150	10/27/20 20:12	11/02/20 22:35	1
13C4 PFOS	108		150	10/27/20 20:12	11/02/20 22:35	1
13C8 FOSA	105		150	10/27/20 20:12	11/02/20 22:35	1
d3-NMeFOSAA	103		150	10/27/20 20:12	11/02/20 22:35	1
d5-NEtFOSAA	102		150	10/27/20 20:12	11/02/20 22:35	1
-6:2 FTS	134		150	10/27/20 20:12	11/02/20 22:35	1
-8:2 FTS	110		150	10/27/20 20:12	11/02/20 22:35	1
4:2 FTS	102		150	10/27/20 20:12	11/02/20 22:35	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

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

Lab Sample ID: LCS 320-426022/2-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 426022

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Perfluorobutanoic acid (PFBA)	5.00	4.93		ug/Kg		99	76	36
Perfluoropentanoic acid (PFPeA)	5.00	4.37		ug/Kg		87	9	9
Perfluorohexanoic acid (PFHxA)	5.00	5.06		ug/Kg			71	31
Perfluoroheptanoic acid (PFHpA)	5.00	4.79		ug/Kg		96	71	31
Perfluorooctanoic acid (PFOA)	5.00	4.66		ug/Kg		93	72	32
Perfluorononanoic acid (PFNA)	5.00	4.74		ug/Kg		95	73	33
Perfluorodecanoic acid (PFDA)	5.00	4.88		ug/Kg		98	72	32
Perfluoroundecanoic acid (PFUnA)	5.00	4.56		ug/Kg		91		
Perfluorododecanoic acid (PFDoA)	5.00	5.70		ug/Kg		4	71	31
Perfluorotridecanoic acid (PFTriA)	5.00	5.87		ug/Kg		7	71	31
Perfluorotetradecanoic acid (PFTeA)	5.00	5.06		ug/Kg			7	7
Perfluorobutanesulfonic acid (PFBS)	4.42	4.16		ug/Kg		94	9	9
Perfluorohexanesulfonic acid (PFHxS)	4.55	4.26		ug/Kg		94		
Perfluoroheptanesulfonic Acid (PFHpS)	4.76	4.94		ug/Kg		4	76	36
Perfluorooctanesulfonic acid (PFOS)	4.64	4.35		ug/Kg		94	8	41
Perfluorodecanesulfonic acid (PFDS)	4.82	4.36		ug/Kg		90	71	31
Perfluorooctanesulfonamide (FOSA)	5.00	4.99		ug/Kg			77	37
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	4.69	J	ug/Kg		94	72	32
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	4.80	J	ug/Kg		96	72	32
:2 FTS	4.74	4.18	J	ug/Kg		88	73	39
8:2 FTS	4.79	4.71	J	ug/Kg		98	75	35

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	104		150
13C5 PFPeA	103		150
13C2 PFHxA	98		150
13C4 PFHpA	111		150
13C4 PFOA	103		150
13C5 PFNA	104		150
13C2 PFDA	98		150
13C2 PFUnA	92		150
13C2 PFDoA	82		150
13C2 PFTeDA	83		150
13C3 PFBS	116		150
18O2 PFHxS	113		150
13C4 PFOS	11		150
13C8 FOSA	95		150
d3-NMeFOSAA	98		150
d5-NEtFOSAA	95		150

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

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

Lab Sample ID: LCS 320-426022/2-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 426022

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
-6:2 FTS	130		150
-8:2 FTS	101		150
4:2 FTS	105		150

Lab Sample ID: LCSD 320-426022/3-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Lab Control Sample Dup

Prep Type: Pre-Treatment

Prep Batch: 426022

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD It</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>PD</i>	<i>PD Limit</i>
Perfluorobutanoic acid (PFBA)	5.00	4.97		ug/Kg		99	76 36		3
Perfluoropentanoic acid (PFPeA)	5.00	4.48		ug/Kg		90	9 9		30
Perfluorohexanoic acid (PFHxA)	5.00	5.01		ug/Kg			71 31		30
Perfluoroheptanoic acid (PFHpA)	5.00	4.93		ug/Kg		99	71 31	3	30
Perfluorooctanoic acid (PFOA)	5.00	4.64		ug/Kg		93	72 32		30
Perfluorononanoic acid (PFNA)	5.00	5.01		ug/Kg			73 33		30
Perfluorodecanoic acid (PFDA)	5.00	5.53		ug/Kg			72 32	3	30
Perfluoroundecanoic acid (PFUnA)	5.00	4.98		ug/Kg				9	30
Perfluorododecanoic acid (PFDoA)	5.00	4.99		ug/Kg			71 31	3	30
Perfluorotridecanoic acid (PFTriA)	5.00	5.60		ug/Kg			71 31	5	30
Perfluorotetradecanoic acid (PFTeA)	5.00	5.02		ug/Kg			7 7		30
Perfluorobutanesulfonic acid (PFBS)	4.42	4.34		ug/Kg		98	9 9	4	30
Perfluorohexanesulfonic acid (PFHxS)	4.55	4.12		ug/Kg		91		3	30
Perfluoroheptanesulfonic Acid (PFHpS)	4.76	5.07		ug/Kg		7	76 36	3	30
Perfluorooctanesulfonic acid (PFOS)	4.64	4.48		ug/Kg		97	8 41	3	30
Perfluorodecanesulfonic acid (PFDS)	4.82	4.93		ug/Kg			71 31		30
Perfluorooctanesulfonamide (FOSA)	5.00	4.82		ug/Kg		96	77 37	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	4.74	J	ug/Kg		95	72 32		30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	4.90	J	ug/Kg		98	72 32		30
:2 FTS	4.74	4.44	J	ug/Kg		94	73 39		30
8:2 FTS	4.79	4.42	J	ug/Kg		92	75 35		30

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
13C4 PFBA	100		150
13C5 PFPeA	98		150
13C2 PFHxA	95		150
13C4 PFHpA	102		150
13C4 PFOA	102		150
13C5 PFNA	96		150
13C2 PFDA	85		150
13C2 PFUnA	96		150

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

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

Lab Sample ID: LCSD 320-426022/3-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Lab Control Sample Dup

Prep Type: Pre-Treatment

Prep Batch: 426022

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFDoA	94		150
13C2 PFTeDA	87		150
13C3 PFBS	107		150
18O2 PFHxS	107		150
13C4 PFOS	100		150
13C8 FOSA	100		150
d3-NMeFOSAA	95		150
d5-NEtFOSAA	92		150
6:2 FTS	124		150
8:2 FTS	103		150
4:2 FTS	11		150

Lab Sample ID: MB 320-426024/1-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Method Blank

Prep Type: Post-Treatment

Prep Batch: 426024

Analyte	MB It	MB Qualifier	L	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	.12		.50	.070	ug/Kg		7/20 20:17	23:50	
Perfluoropentanoic acid (PFPeA)	ND		.50	.19	ug/Kg		7/20 20:17	23:50	
Perfluorohexanoic acid (PFHxA)	ND		.50	.1	ug/Kg		7/20 20:17	23:50	
Perfluoroheptanoic acid (PFHpA)	ND		.50	.073	ug/Kg		7/20 20:17	23:50	
Perfluorooctanoic acid (PFOA)	ND		.50	.22	ug/Kg		7/20 20:17	23:50	
Perfluorononanoic acid (PFNA)	ND		.50	.090	ug/Kg		7/20 20:17	23:50	
Perfluorodecanoic acid (PFDA)	ND		.50	.055	ug/Kg		7/20 20:17	23:50	
Perfluoroundecanoic acid (PFUnA)	ND		.50	.090	ug/Kg		7/20 20:17	23:50	
Perfluorododecanoic acid (PFDoA)	ND		.50	.17	ug/Kg		7/20 20:17	23:50	
Perfluorotridecanoic acid (PFTriA)	ND		.50	.13	ug/Kg		7/20 20:17	23:50	
Perfluorotetradecanoic acid (PFTeA)	ND		.50	.14	ug/Kg		7/20 20:17	23:50	
Perfluorobutanesulfonic acid (PFBS)	ND		.50	.063	ug/Kg		7/20 20:17	23:50	
Perfluorohexanesulfonic acid (PFHxS)	ND		.50	.078	ug/Kg		7/20 20:17	23:50	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		.50	.088	ug/Kg		7/20 20:17	23:50	
Perfluorooctanesulfonic acid (PFOS)	ND		.3	.50	ug/Kg		7/20 20:17	23:50	
Perfluorodecanesulfonic acid (PFDS)	ND		.50	.098	ug/Kg		7/20 20:17	23:50	
Perfluorooctanesulfonamide (FOSA)	ND		.50	.21	ug/Kg		7/20 20:17	23:50	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	.98	ug/Kg		7/20 20:17	23:50	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	.93	ug/Kg		7/20 20:17	23:50	
:2 FTS	ND		5.0	.38	ug/Kg		7/20 20:17	23:50	
8:2 FTS	ND		5.0	.63	ug/Kg		7/20 20:17	23:50	

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C4 PFBA	98		150	10/27/20 20:17	11/02/20 23:50	1
13C5 PFPeA	98		150	10/27/20 20:17	11/02/20 23:50	1
13C2 PFHxA	103		150	10/27/20 20:17	11/02/20 23:50	1
13C4 PFHpA	99		150	10/27/20 20:17	11/02/20 23:50	1
13C4 PFOA	96		150	10/27/20 20:17	11/02/20 23:50	1
13C5 PFNA	104		150	10/27/20 20:17	11/02/20 23:50	1
13C2 PFDA	90		150	10/27/20 20:17	11/02/20 23:50	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

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

Lab Sample ID: MB 320-426024/1-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Method Blank

Prep Type: Post-Treatment

Prep Batch: 426024

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Fac
13C2 PFUnA	92		150	10/27/20 20:17	11/02/20 23:50	1
13C2 PFDoA	90		150	10/27/20 20:17	11/02/20 23:50	1
13C2 PFTeDA	80		150	10/27/20 20:17	11/02/20 23:50	1
13C3 PFBS	106		150	10/27/20 20:17	11/02/20 23:50	1
18O2 PFHxS	105		150	10/27/20 20:17	11/02/20 23:50	1
13C4 PFOS	105		150	10/27/20 20:17	11/02/20 23:50	1
13C8 FOSA	98		150	10/27/20 20:17	11/02/20 23:50	1
d3-NMeFOSAA	92		150	10/27/20 20:17	11/02/20 23:50	1
d5-NEtFOSAA	91		150	10/27/20 20:17	11/02/20 23:50	1
-6:2 FTS	109		150	10/27/20 20:17	11/02/20 23:50	1
-8:2 FTS	109		150	10/27/20 20:17	11/02/20 23:50	1
4:2 FTS			10	10/27/20 20:17	11/02/20 23:50	1

Lab Sample ID: LCS 320-426024/2-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Lab Control Sample

Prep Type: Post-Treatment

Prep Batch: 426024

Analyte	Spike Added	LCS It	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	5.00	.93	*	ug/Kg		39	70 30
Perfluoropentanoic acid (PFPeA)	5.00	5.01		ug/Kg			70 30
Perfluorohexanoic acid (PFHxA)	5.00	5.85		ug/Kg		7	70 30
Perfluoroheptanoic acid (PFHpA)	5.00	.1		ug/Kg			70 30
Perfluorooctanoic acid (PFOA)	5.00	.9	*	ug/Kg		59	70 30
Perfluorononanoic acid (PFNA)	5.00	5.34		ug/Kg		7	70 30
Perfluorodecanoic acid (PFDA)	5.00	5.53		ug/Kg			70 30
Perfluoroundecanoic acid (PFUnA)	5.00	4.34		ug/Kg		87	70 30
Perfluorododecanoic acid (PFDoA)	5.00	4.84		ug/Kg		97	70 30
Perfluorotridecanoic acid (PFTriA)	5.00	4.79		ug/Kg		96	70 30
Perfluorotetradecanoic acid (PFTeA)	5.00	3.95		ug/Kg		79	70 30
Perfluorobutanesulfonic acid (PFBS)	4.42	4.16		ug/Kg		94	70 30
Perfluorohexanesulfonic acid (PFHxS)	4.55	4.07		ug/Kg		90	70 30
Perfluoroheptanesulfonic Acid (PFHpS)	4.76	4.25		ug/Kg		89	70 30
Perfluorooctanesulfonic acid (PFOS)	4.64	4.61		ug/Kg		99	70 30
Perfluorodecanesulfonic acid (PFDS)	4.82	4.12		ug/Kg		85	70 30
Perfluorooctanesulfonamide (FOSA)	5.00	ND		ug/Kg			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	ND		ug/Kg			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	ND		ug/Kg			
:2 FTS	4.74	ND		ug/Kg			
8:2 FTS	4.79	ND		ug/Kg			

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

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

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	101		150
13C5 PFPeA	104		150
13C2 PFHxA	102		150
13C4 PFHpA	103		150
13C4 PFOA	100		150
13C5 PFNA	104		150
13C2 PFDA	100		150
13C2 PFUnA	97		150
13C2 PFDoA	94		150
13C2 PFTeDA	96		150
13C3 PFBS	11		150
18O2 PFHxS	111		150
13C4 PFOS	11		150
13C8 FOSA	99		150
d3-NMeFOSAA	97		150
d5-NEtFOSAA	91		150
6:2 FTS	101		150
8:2 FTS	108		150
4:2 FTS			10

Lab Sample ID: LCSD 320-426024/3-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Lab Control Sample Dup

Prep Type: Post-Treatment

Prep Batch: 426024

Analyte	Spike Added	LCSD It	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		PD	Limit
							70	30		
Perfluorobutanoic acid (PFBA)	5.00	7.25	*	ug/Kg		45	70	30	5	3
Perfluoropentanoic acid (PFPeA)	5.00	4.89		ug/Kg		98	70	30	3	30
Perfluorohexanoic acid (PFHxA)	5.00	5.96		ug/Kg		9	70	30		30
Perfluoroheptanoic acid (PFHpA)	5.00	.07		ug/Kg			70	30		30
Perfluorooctanoic acid (PFOA)	5.00	4.3	*	ug/Kg		87	70	30		30
Perfluorononanoic acid (PFNA)	5.00	5.39		ug/Kg		8	70	30		30
Perfluorodecanoic acid (PFDA)	5.00	5.25		ug/Kg		5	70	30	5	30
Perfluoroundecanoic acid (PFUnA)	5.00	4.34		ug/Kg		87	70	30		30
Perfluorododecanoic acid (PFDoA)	5.00	4.77		ug/Kg		95	70	30		30
Perfluorotridecanoic acid (PFTriA)	5.00	4.48		ug/Kg		90	70	30	7	30
Perfluorotetradecanoic acid (PFTeA)	5.00	4.18		ug/Kg		84	70	30		30
Perfluorobutanesulfonic acid (PFBS)	4.42	4.37		ug/Kg		99	70	30	5	30
Perfluorohexanesulfonic acid (PFHxS)	4.55	3.98		ug/Kg		88	70	30		30
Perfluoroheptanesulfonic Acid (PFHpS)	4.76	4.48		ug/Kg		94	70	30	5	30
Perfluorooctanesulfonic acid (PFOS)	4.64	4.79		ug/Kg		3	70	30	4	30
Perfluorodecanesulfonic acid (PFDS)	4.82	4.08		ug/Kg		85	70	30		30
Perfluorooctanesulfonamide (FOSA)	5.00	ND		ug/Kg					NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	ND		ug/Kg					NC	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

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

Lab Sample ID: LCSD 320-426024/3-A

Matrix: Solid

Analysis Batch: 427825

Client Sample ID: Lab Control Sample Dup

Prep Type: Post-Treatment

Prep Batch: 426024

Analyte	Spike Added	LCSD It	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	PD	PD Limit
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	ND		ug/Kg				NC	30
:2 FTS	4.74	ND		ug/Kg				NC	30
8:2 FTS	4.79	ND		ug/Kg				NC	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	97		150
13C5 PFPeA	107		150
13C2 PFHxA	102		150
13C4 PFHpA	106		150
13C4 PFOA	99		150
13C5 PFNA	109		150
13C2 PFDA	99		150
13C2 PFUnA	101		150
13C2 PFDaA	91		150
13C2 PFTeDA	89		150
13C3 PFBS	11		150
18O2 PFHxS	11		150
13C4 PFOS	11		150
13C8 FOSA	101		150
d3-NMeFOSAA	101		150
d5-NEtFOSAA	94		150
6:2 FTS	109		150
8:2 FTS	98		150
4:2 FTS			10

QC Association Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

LCMS

Prep Batch: 426022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Pre-Treatment	Solid	TOP Pre-Prep	
460-221262-22	S8B-SOIL-102120	Pre-Treatment	Solid	TOP Pre-Prep	
MB 320-426022/1-A	Method Blank	Pre-Treatment	Solid	TOP Pre-Prep	
LCS 320-426022/2-A	Lab Control Sample	Pre-Treatment	Solid	TOP Pre-Prep	
LCSD 320-426022/3-A	Lab Control Sample Dup	Pre-Treatment	Solid	TOP Pre-Prep	

Prep Batch: 426024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Post-Treatment	Solid	TOP Post-Prep	
460-221262-22	S8B-SOIL-102120	Post-Treatment	Solid	TOP Post-Prep	
MB 320-426024/1-A	Method Blank	Post-Treatment	Solid	TOP Post-Prep	
LCS 320-426024/2-A	Lab Control Sample	Post-Treatment	Solid	TOP Post-Prep	
LCSD 320-426024/3-A	Lab Control Sample Dup	Post-Treatment	Solid	TOP Post-Prep	

Analysis Batch: 427825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Post-Treatment	Solid	537 (modified)	426024
460-221262-4	S15-SOIL-102120	Pre-Treatment	Solid	537 (modified)	426022
460-221262-22	S8B-SOIL-102120	Post-Treatment	Solid	537 (modified)	426024
460-221262-22	S8B-SOIL-102120	Pre-Treatment	Solid	537 (modified)	426022
MB 320-426022/1-A	Method Blank	Pre-Treatment	Solid	537 (modified)	426022
MB 320-426024/1-A	Method Blank	Post-Treatment	Solid	537 (modified)	426024
LCS 320-426022/2-A	Lab Control Sample	Pre-Treatment	Solid	537 (modified)	426022
LCS 320-426024/2-A	Lab Control Sample	Post-Treatment	Solid	537 (modified)	426024
LCSD 320-426022/3-A	Lab Control Sample Dup	Pre-Treatment	Solid	537 (modified)	426022
LCSD 320-426024/3-A	Lab Control Sample Dup	Post-Treatment	Solid	537 (modified)	426024

Analysis Batch: 428349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Pre-Treatment	Solid	Total PFCA-Sum	
460-221262-22	S8B-SOIL-102120	Pre-Treatment	Solid	Total PFCA-Sum	

Analysis Batch: 428350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Post-Treatment	Solid	Total PFCA-Sum	
460-221262-22	S8B-SOIL-102120	Post-Treatment	Solid	Total PFCA-Sum	

Analysis Batch: 428352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221262-4	S15-SOIL-102120	Total/NA	Solid	Total PFCA-Dif	
460-221262-22	S8B-SOIL-102120	Total/NA	Solid	Total PFCA-Dif	

Lab Chronicle

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Analysis	Ttal PFCA-Dif		1	428352	11/04/20 10:37	SHK	TAL SAC
Post-T eatment	Analysis	Ttal PFCA-Sum		1	428350	11/04/20 10:36	SHK	TAL SAC
Pre-T eatment	Analysis	Ttal PFCA-Sum		1	428349	11/04/20 10:34	SHK	TAL SAC

Client Sample ID: S15-SOIL-102120

Lab Sample ID: 460-221262-4

Date Collected: 10/21/20 10:35

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 62.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Post-T eatment	Prep	TOP Post-Prep			426024	10/27/20 20:17	JER	TAL SAC
Post-T eatment	Analysis	537 (modified)		1	427825	11/03/20 00:19	JRB	TAL SAC
Pre-T eatment	Prep	TOP Pre-Prep			426022	10/27/20 20:12	JER	TAL SAC
Pre-T eatment	Analysis	537 (modified)		1	427825	11/02/20 23:03	JRB	TAL SAC

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Ttal/NA	Analysis	Ttal PFCA-Dif		1	428352	11/04/20 10:37	SHK	TAL SAC
Post-T eatment	Analysis	Ttal PFCA-Sum		1	428350	11/04/20 10:36	SHK	TAL SAC
Pre-T eatment	Analysis	Ttal PFCA-Sum		1	428349	11/04/20 10:34	SHK	TAL SAC

Client Sample ID: S8B-SOIL-102120

Lab Sample ID: 460-221262-22

Date Collected: 10/21/20 14:10

Matrix: Solid

Date Received: 10/23/20 10:00

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Post-T eatment	Prep	TOP Post-Prep			426024	10/27/20 20:17	JER	TAL SAC
Post-T eatment	Analysis	537 (modified)		1	427825	11/03/20 00:28	JRB	TAL SAC
Pre-T eatment	Prep	TOP Pre-Prep			426022	10/27/20 20:12	JER	TAL SAC
Pre-T eatment	Analysis	537 (modified)		1	427825	11/02/20 23:13	JRB	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New k State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
ew k	ELAP	11666	04-01-21
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)	TOP Post-Prep	Solid	6:2 FTS
537 (modified)	TOP Post-Prep	Solid	8:2 FTS
537 (modified)	TOP Post-Prep	Solid	-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	TOP Post-Prep	Solid	-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	TOP Post-Prep	Solid	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	TOP Post-Prep	Solid	Perfluorobutanoic acid (PFBA)
537 (modified)	TOP Post-Prep	Solid	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	TOP Post-Prep	Solid	Perfluorodecanoic acid (PFDA)
537 (modified)	TOP Post-Prep	Solid	Perfluorododecanoic acid (PFDoA)
537 (modified)	TOP Post-Prep	Solid	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	TOP Post-Prep	Solid	Perfluoroheptanoic acid (PFHpA)
537 (modified)	TOP Post-Prep	Solid	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	TOP Post-Prep	Solid	Perfluorohexanoic acid (PFHxA)
537 (modified)	TOP Post-Prep	Solid	Perfluorononanoic acid (PFNA)
537 (modified)	TOP Post-Prep	Solid	Perfluorooctanesulfonamide (FOSA)
537 (modified)	TOP Post-Prep	Solid	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	TOP Post-Prep	Solid	Perfluorooctanoic acid (PFOA)
537 (modified)	TOP Post-Prep	Solid	Perfluoropentanoic acid (PFPeA)
537 (modified)	TOP Post-Prep	Solid	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	TOP Post-Prep	Solid	Perfluorotridecanoic acid (PFT iA)
537 (modified)	TOP Post-Prep	Solid	Perfluoroundecanoic acid (PFUnA)
537 (modified)	TOP Pre-Prep	Solid	6:2 FTS
537 (modified)	TOP Pre-Prep	Solid	8:2 FTS
537 (modified)	TOP Pre-Prep	Solid	-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	TOP Pre-Prep	Solid	-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	TOP Pre-Prep	Solid	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	TOP Pre-Prep	Solid	Perfluorobutanoic acid (PFBA)
537 (modified)	TOP Pre-Prep	Solid	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	TOP Pre-Prep	Solid	Perfluorodecanoic acid (PFDA)
537 (modified)	TOP Pre-Prep	Solid	Perfluorododecanoic acid (PFDoA)
537 (modified)	TOP Pre-Prep	Solid	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	TOP Pre-Prep	Solid	Perfluoroheptanoic acid (PFHpA)
537 (modified)	TOP Pre-Prep	Solid	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	TOP Pre-Prep	Solid	Perfluorohexanoic acid (PFHxA)
537 (modified)	TOP Pre-Prep	Solid	Perfluorononanoic acid (PFNA)
537 (modified)	TOP Pre-Prep	Solid	Perfluorooctanesulfonamide (FOSA)
537 (modified)	TOP Pre-Prep	Solid	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	TOP Pre-Prep	Solid	Perfluorooctanoic acid (PFOA)
537 (modified)	TOP Pre-Prep	Solid	Perfluoropentanoic acid (PFPeA)
537 (modified)	TOP Pre-Prep	Solid	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	TOP Pre-Prep	Solid	Perfluorotridecanoic acid (PFTriA)
537 (modified)	TOP Pre-Prep	Solid	Perfluoroundecanoic acid (PFUnA)

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

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

Authority	Program	Identification Number	Expiration Date
New York	ELAP	11666	04-01-21
Ttal PFCA-Dif	Solid	PFBA	
Ttal PFCA-Dif	Solid	PFHpA	
Ttal PFCA-Dif	Solid	PFHxA	
Ttal PFCA-Dif	Solid	PFNA	
Ttal PFCA-Dif	Solid	PFOA	
Ttal PFCA-Dif	Solid	PFPA	
Ttal PFCA-Dif	Solid	Ttal PFCA	
Ttal PFCA-Sum	Solid	Ttal PFCA	

Method Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
Total PFCA-Dif	Total PFCA (Treatment Difference)	TAL SOP	TAL SAC
Total PFCA-Sum	Total PFCA (Summary)	TAL SOP	TAL SAC
TOP Post-Prep	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC
TOP Pre-Prep	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Project/Site: Norlite - Cohoes #401041

Job ID: 460-221262-2

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-221262-4	S15-SOIL-102120	Solid	10:35	3/20 10:00	
460-221262-22	S8B-SOIL-102120	Solid	14:10	3/20 10:00	

Albany
#224

Ver: 01/16/2019

Client Information Client Contact: Lynn Winterberger Company: New York State D.E.C. Address: 625 Broadway Division of Environmental Remediation City: Albany State, Zip: NY, 12233-7014 Phone: 518-402-9267 (Tel) Email: lynn.winterberger@dec.ny.gov Project Name: Norlite - Cohoes #401041 Site:				Sampler: <i>Brian J. ...</i> Phone:		Lab PM: Stone, Judy L E-Mail: Judy.Stone@Eurofinset.com		Carrier Tracking No(s):		COC No: 480-150123-33366.2 Page: Page 2 of 7	
				Due Date Requested:		TAT Requested (days): <i>Standard</i>		PO #: Call Out DMM R4 - 401041 WO #:		Project #: 48022694 SSOW#:	
Analysis Requested				Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		PFC_IDA - PFAS, Standard List (21 Anal/yes) 6010D, 7196A, 7471B 6010D, 7470A 7196A - Hexavalent Chromium - 7196		Total Number of containers		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
										Other:	
Sample Identification				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil/sediment, BT=Tissue, A=Air)	Preservation Code:		Special Instructions/Note:	
<i>S3-SOIL-102120</i>				<i>10/21/20</i>	<i>515</i>	<i>G</i>	<i>Solid</i>	<i>X X X</i>		<i>2</i>	<i>10</i>
<i>S4-SOIL-102120</i>				<i>10/21/20</i>	<i>549</i>	<i>G</i>	<i>Solid</i>	<i>X X X</i>		<i>2</i>	<i>11</i>
<i>S11-SOIL-102120</i>				<i>10/21/20</i>	<i>387</i>	<i>G</i>	<i>Solid</i>	<i>X X X</i>		<i>2</i>	<i>12</i>
<i>S12-SOIL-102120</i>				<i>10/21/20</i>	<i>255</i>	<i>G</i>	<i>Solid</i>	<i>X X X</i>		<i>2</i>	<i>13</i>
<i>DUP2-SOIL-102120</i>				<i>10/21/20</i>	<i>—</i>	<i>G</i>	<i>Solid</i>	<i>X X X</i>		<i>2</i>	<i>14</i>
<i>S1-SOIL-102120</i>				<i>10/21/20</i>	<i>430</i>	<i>G</i>	<i>Solid</i>	<i>X X X</i>		<i>2</i>	<i>15</i>
<i>TB2-102120</i>				<i>10/21/20</i>	<i>—</i>	<i>—</i>	<i>Solid</i>	<i>X X X</i>		<i>4</i>	<i>Trip Blank C 16</i>
							<i>Solid</i>				<i>25</i>
							<i>Solid</i>				
							<i>Solid</i>				
							<i>Solid</i>				
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify) <i>Cat B NYSDEC EDD</i>				Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:			
Relinquished by: <i>Jim Knoll</i>				Date/Time: <i>10/22/20 10:40</i>		Company: <i>NYSDEC</i>		Received by: <i>Tim Knoll</i>		Date/Time: <i>10-22-2020 1040</i>	
Relinquished by: <i>Red EX</i>				Date/Time: <i>10-22-2020 1700</i>		Company: <i>EETA</i>		Received by:		Date/Time:	
Relinquished by:				Date/Time: <i>10/23/20 1000</i>		Company:		Received by: <i>C. J...</i>		Date/Time: <i>10/23/20 1000</i>	
Custody Seals Intact: ☐ Yes ☐ No				Custody Seal No.: <i>CO present</i>		Cooler Temperature(s) °C and Other Remarks: <i>4.5, 3.80 C IR#11</i>					

Chain of Custody Record

Albany

#224

Environment Testing
America

Client Information		Sampler: <i>Brian Sankowsky</i>		Lab PM: Stone, Judy L.		Carrier Tracking No(s):		COC No: 480-150123-33366.3						
Client Contact: Lynn Winterberger		Phone:		E-Mail: Judy.Stone@Eurofinset.com				Page: Page 3 of 7						
Company: New York State D.E.C.								Job #: 224262						
Address: 625 Broadway Division of Environmental Remediation		Due Date Requested:						Preservation Codes:						
City: Albany		TAT Requested (days): <i>Standard</i>						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)						
State, Zip: NY, 12233-7014		PO #: Call Out DMM R4 - 401041						Other:						
Phone: 518-402-9267 (Tel)		WO #:												
Email: lynn.winterberger@dec.ny.gov		Project #: 48022694												
Project Name: Norlite - Cohoes #401041		SSOW#:												
Site:														
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)	Perform: MS/MSD (Yes or No)	PFC, IDA - PFAS, Standard List (21 Analytes)	6010D, 7196A, 7471B	6010D, 7470A	7196A - Hexavalent Chromium - 7196	PFC - IDA - TOPS Assay	Total Number of containers	Special Instructions/Note:
				Preservation Code:		X	X	N	N	D	N			
56A-SOIL-102120		10/21/20	2:40	G	Solid			X	X	X			2	17
56B-SOIL-102120		10/21/20	2:50	G	Solid			X	X	X			2	18
57A-SOIL-102120		10/21/20	3:05	G	Solid			X	X	X			2	19
57B-SOIL-102120		10/21/20	3:15	G	Solid			X	X	X			2	20
58A-SOIL-102120		10/21/20	2:00	G	Solid			X	X	X			2	21
58B-SOIL-102120		10/21/20	2:10	G	Solid			X	X	X	X		3	22
59A-SOIL-102120		10/21/20	3:30	G	Solid			X	X	X			2	23
59B-SOIL-102120		10/21/20	3:45	G	Solid	X	X	X	X	X			6	24
Equipment Blank 102120		10/21/20	2:30	—	Solid			X	X	X			1	25
Field Blank 102120		10/21/20	4:30	—	Solid			X		X			2	26
55-SOIL-102120		10/21/20	4:45	G	Solid			X	X	X			2	27
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological						☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months								
Deliverable Requested: I, II, III, IV, Other (specify) <i>Cnt B, NYS DEC EDD</i>						Special Instructions/QC Requirements:								
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:								
Relinquished by: <i>TD</i>		Date/Time: 10/23/20 10:40		Company: NYSDEC		Received by: <i>T. Kudlman</i>		Date/Time: 10-22-2020 1040		Company: EETA				
Relinquished by: <i>T. Kudlman</i>		Date/Time: 10-22-2020 1700		Company: EETA		Received by:		Date/Time:		Company:				
Relinquished by: <i>Red EX</i>		Date/Time: 10/23/20 10:00		Company:		Received by: <i>L. Fyfe</i>		Date/Time: 10/23/20 1000		Company: <i>TA Edison</i>				
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.: <i>CS present</i>				Cooler Temperature(s) °C and other remarks: <i>4.5, 3.8 °C - FTA</i>								

Client Information		Sampler: <u>Brian Jankowsky</u>		Lab PM: <u>Stone, Judy L</u>		Carrier Tracking No(s):		COC No: <u>480-150123-33366.7</u>																	
Client Contact: <u>Lynn Winterberger</u>		Phone:		E-Mail: <u>Judy.Stone@Eurofinset.com</u>				Page: <u>4</u> Page <u>7</u> of <u>7</u>																	
Company: <u>New York State D.E.C.</u>		Due Date Requested:		Analysis Requested						Job #: <u>22262</u>															
Address: <u>625 Broadway Division of Environmental Remediation</u>		TAT Requested (days): <u>Standard</u>		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) PFC_IDA - PFAS, Standard List (21 Analytes) 6010D, 7196A, 7471B 6010D, 7470A 7196A - Hexavalent Chromium - 7196 Total Number of containers						Preservation Codes:															
City: <u>Albany</u>		PO #: <u>Call Out DMM R4 - 401041</u>								A - HCL		M - Hexane													
State, Zip: <u>NY, 12233-7014</u>		WO #:								B - NaOH		N - None													
Phone: <u>518-402-9267(Tel)</u>		Project #: <u>48022694</u>								C - Zn Acetate		O - AsNaO2													
Email: <u>lynn.winterberger@dec.ny.gov</u>		SSOW#:								D - Nitric Acid		P - Na2O4S													
Project Name: <u>Norlite - Cohoes #401041</u>										E - NaHSO4		Q - Na2SO3													
Site:										F - MeOH		R - Na2S2O3													
										G - Amchlor		S - H2SO4													
										H - Ascorbic Acid		T - TSP Dodecahydrate													
										I - Ice		U - Acetone													
										J - DI Water		V - MCAA													
										K - EDTA		W - pH 4-5													
										L - EDA		Z - other (specify)													
										Other:															
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, B=to tissue, A=air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFC_IDA - PFAS, Standard List (21 Analytes)		6010D, 7196A, 7471B		6010D, 7470A		7196A - Hexavalent Chromium - 7196		Total Number of containers		Special Instructions/Note:	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>2</u>		<u>28</u>	
<u>10-5011-102120</u>		<u>10/21/20</u>		<u>5:15</u>		<u>G</u>		<u>Solid</u>		<u>X</u>															

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Page 1 of 1

Job Number: 221262

Number of Coolers: 2 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	<u>4.5</u> °C	<u>4.5</u> °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	<u>3.8</u> °C	<u>3.8</u> °C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
<u>2</u>				<u>42</u>											
<u>25</u>				<u>42</u>											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____

Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____

Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: SV

Date: 10/23/20

Eurofins TestAmerica, Sacramento

880 Riverside Parkway

West Sacramento, CA 95605

Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

Environmental Testing
America

Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:									
Client Contact:		Phone:		E-Mail:		State of Origin:		Page:									
Shipping/Receiving				Judy.Stone@Eurofinset.com		New York		Page 1 of 1									
Company:		Accreditations Required (See note):		Job #:													
TestAmerica Laboratories, Inc.		NELAP - New York		460-221262-1													
Address:		Due Date Requested:		Analysis Requested													
777 New Durham Road,		10/30/2020															
City:		TAT Requested (days):		<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
Edison																	
State, Zip:		PO #:		<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
NJ, 08817																	
Phone:		WO #:		<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
732-549-3900(Tel) 732-549-3679(Fax)																	
Email:		Project #:		<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
		48022694															
Project Name:		SSOW#:		<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
Norlite - Cohoes #401041																	
Site:				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														
				<table border="1"> <tr> <td>7196A/3060A Hexavalent Chromium - 7196</td> <td>6010D/3050B TAL Metals</td> <td>7471B/7471B Prep Mercury</td> <td>Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>						7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture				
7196A/3060A Hexavalent Chromium - 7196	6010D/3050B TAL Metals	7471B/7471B Prep Mercury	Moisture														

Ver: 01/16/2019

Environment Testing
America

Client Information (Sub Contract Lab)						Sampler:		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 460-59828.2					
Client Contact: Shipping/Receiving						Phone:		E-Mail: Judy.Stone@Eurofinset.com		State of Origin: New York		Page: Page 2 of 4					
Company: TestAmerica Laboratories, Inc.						Accreditations Required (See note): NELAP - New York							Job #: 460-221262-1				
Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605						Due Date Requested: 10/30/2020		Analysis Requested Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) PFC_IDA/Shake_Bath_14D PFAS, Standard List (21 Analytes) PFC_IDA/3535_PFC PFAS, Standard List (21 Analytes) Total Number of containers							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)		
PO #:																	
WO #:																	
Project #:																	
Email:						SSOW#:											
Project Name: Norlite - Cohoes #401041						Project #: 48022694											
Site:						SSOW#:											
Sample Identification - Client ID (Lab ID)						Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)		Preservation Code:		Special Instructions/Note:	
S2-SOIL-102120 (460-221262-8)						10/21/20		11:55 Eastern		Solid				X		1	
DUP1-SOIL-102120 (460-221262-9)						10/21/20		Eastern		Solid				X		1	
S3-SOIL-102120 (460-221262-10)						10/21/20		17:15 Eastern		Solid				X		1	
S4-SOIL-102120 (460-221262-11)						10/21/20		17:49 Eastern		Solid				X		1	
S11-SOIL-102120 (460-221262-12)						10/21/20		17:37 Eastern		Solid				X		1	
S12-SOIL-102120 (460-221262-13)						10/21/20		14:55 Eastern		Solid				X		1	
DUP2-SOIL-102120 (460-221262-14)						10/21/20		Eastern		Solid				X		1	
S1-SOIL-102120 (460-221262-15)						10/21/20		16:30 Eastern		Solid				X		1	
TB2-102120 (460-221262-16)						10/21/20		Eastern		Water				X		2	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.																	
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Unconfirmed										☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)										Primary Deliverable Rank: 2							
Empty Kit Relinquished by:										Special Instructions/QC Requirements:							
Relinquished by:						Date/Time:		Time:		Method of Shipment:							
Relinquished by:						Date/Time:		Received by:		Date/Time:		Company					
Relinquished by:						Date/Time:		Received by:		Date/Time:		Company					
Relinquished by:						Date/Time:		Received by:		Date/Time:		Company					
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:													
Δ Yes Δ No		1134166		1.2 cool 1.8													

 eurofins

Environment testing

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 460-59828.3					
Client Contact: Shipping/Receiving		Phone:		E-Mail: Judy.Stone@Eurofinset.com		State of Origin: New York		Page: Page 3 of 4					
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): NELAP - New York				Job #: 460-221262-1					
Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605		Due Date Requested: 10/30/2020		Analysis Requested						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)			
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		TAT Requested (days):											
Email:		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PFC_IDA/Shake_Bath_14D PFAS, Standard List (21 Analytes)		PFC_IDA/3335_PFC PFAS, Standard List (21 Analytes)		Total Number of containers	
Project Name: Norlite - Cohoes #401041		Project #: 48022694											
Site:		SSOW#:		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, Q=waste/soil, BT=Tissue, A=Air)		Special Instructions/Note:					
Sample Identification - Client ID (Lab ID)		Sample Date											
Sample Time		Preservation Code:		X		X		X		X		X	
S6A-SOIL-102120 (460-221262-17)		10/21/20		14:40 Eastern		Solid		X		X		1	
S6B-SOIL-102120 (460-221262-18)		10/21/20		14:50 Eastern		Solid		X		X		1	
S7A-SOIL-102120 (460-221262-19)		10/21/20		15:05 Eastern		Solid		X		X		1	
S7B-SOIL-102120 (460-221262-20)		10/21/20		15:15 Eastern		Solid		X		X		1	
S8A-SOIL-102120 (460-221262-21)		10/21/20		14:00 Eastern		Solid		X		X		1	
S8B-SOIL-102120 (460-221262-22)		10/21/20		14:10 Eastern		Solid		X		X		2	
S9A-SOIL-102120 (460-221262-23)		10/21/20		15:30 Eastern		Solid		X		X		1	
S9B-SOIL-102120 (460-221262-24)		10/21/20		15:45 Eastern		Solid		X		X		1	
S9B-SOIL-102120 (460-221262-24MS)		10/21/20		15:45 Eastern		MS Solid		X		X		1	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica													
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months							
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:							
Empty Kit Relinquished by:						Date:							
Relinquished by:						Time:							
Relinquished by:						Method of Shipment:							
Relinquished by:						Date/Time:							
Relinquished by:						Company:							
Relinquished by:						Received by:							
Relinquished by:						Date/Time:							
Relinquished by:						Company:							
Custody Seals Intact: ☒ Yes ☐ No						Custody Seal No.: 1134166							
Cooler Temperature(s) °C and Other Remarks:						1.3 ice 1.8							

 eurofins | Environment Testing
America

Ver: 01/16/2019



Environment Testing
TestAmerica

Sacramento Sample Receiving Notes



460-221262 Field Sheet

Tracking #: 8142 9456 6408

SO LPO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Job: _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: AK11 Corr. Factor: (+/-) 0.5 °C

Ice / Wet / Gel _____ Other _____

Cooler Custody Seal: 1134166

Cooler ID: _____

Temp Observed: 1.3 °C Corrected: 1.8 °C

From: Temp Blank ☐ Sample ☒

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☒	☐
Cooler Temperature is acceptable?	☒	☐	☐

Initials: ST Date: 10/27/20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☒	☐	☐
Samples compromised/tampered with?	☐	☒	☐
Sample containers have legible labels?	☒	☐	☐
Sample custody seal?	☐	☐	☒
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided?	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Samples w/o discrepancies?	☒	☒	☐
Zero headspace?*	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [Signature] Date: 10/27/20

Notes: SAMPLES RECEIVED
NOT ON COC. NCM
WRITTEN WITH THE LIST
OF SAMPLES RECEIVED.

10/27/20 FILED.
DISREGARD

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☒	☐	☐
Samples received within hold time?	☒	☐	☐
NCM Filed?	☒	☐	☒
Log Release checked in TALS?	☐	☐	☒

Initials: [Signature] Date: 10/27/20

Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 460-221262-2

Login Number: 221262

List Source: Eurofins T stAmerica, Edison

List Number: 1

Creator: Rivera, Kenneth

Question	Answer	Comment
radioactivity either was not measured or, if measured, is at or below background	/A	
The cooler's custody seal, if present, is intact.	True	custody seal p esent
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)..	False	
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 equested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	/A	

Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 460-221262-2

Login Number: 221262

List Number: 2

Creator: Saephan, Kae C

List Source: Eurofins T stAmerica, Sacramento

List Creation: 10/27/20 01:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1134166
Sample custody seals, if present, are intact.	/A	
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	b: 1.3c corr: 1.8c
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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	/A	
There is sufficient vol. for all requested analyses, incl. any equested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	/A	

Login Sample Receipt Checklist

Client: New k State D.E.C.

Job Number: 460-221262-2

Login Number: 221262

List Number: 3

Creator: Saephan, Kae C

List Source: Eurofins T stAmerica, Sacramento

List Creation: 10/27/20 02:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1134166
Sample custody seals, if present, are intact.	/A	
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	b: 1.3c corr: 1.8c
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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	/A	
There is sufficient vol. for all requested analyses, incl. any equested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	/A	

Data Usability Summary Report – Norlite Cohoes Site

Review by Dana M. Barbarossa
NYSDEC
Division of Environmental Remediation
Bureau of Technical Support

A review of the analytical data has been completed for twenty-eight soil samples and nineteen surface water samples collected on October 21, 2020, October 30, 2020, and November 6, 2020, as part of an investigation related to the Norlite facility in Cohoes, NY. Soil and surface water samples were analyzed at Eurofins Test America in Sacramento, California for a specific list of twenty-one per- and polyfluoroalkyl substances (PFAS) using a modified 537 methodology (Modified 537). Two soil samples and two surface water samples were analyzed for Total Oxidizable Precursors (TOP Assay) using Test America's SOP and modified 537.

Data was evaluated using guidelines set forth in NYSDEC's Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs (October 2020) and USEPA National Functional Guidelines for Organic Data Review.

Some data required qualification that may or may not affect data quality and usability. Data that was qualified during the quality assurance review is detailed below. Full data review summaries can be found attached to this report.

Holding time and preservation

Several soil samples were re-prepared outside of holding time due to the lab control spike for the data recovering outside of the control limits. The results from both sets of samples were compared and the relative percent difference (RPD) calculated. The RPD of the set of results were within 20% relative percent difference. The samples analyzed within the holding time were reported.

Signal to Noise Ratio

The signal to noise ratio for several analytes did not meet the criteria of 3:1. PFPeA ion ratios were below the criteria of 3:1 in samples HFPCW2, HFW2, HFW3, HFW4, HFW DUP, HFW1, PC1. The signal to noise ratios for PFBS in HFPCW2, PFBA in PC1, and PFHxA in HFW1 were below 3:1 as well.

The peaks for the individual analytes were evaluated to determine if they were discernable from what would be considered baseline noise. In each instance, the peaks did not appear to be baseline noise and results were reported with no qualification as a result. These findings were consistent with the laboratory's analyst findings.

Secondary Ions

The ratio of quantifier to qualifier ion was outside of the lab derived criteria for several analytes in multiple different samples. PFuNA in S1, PFHxS in S6A, S6B, S7A, and S9A, PFNA in HFW3, PFOS in HFW3 and HFSCW2, and PFBS in HFSCW1.

The affected analytes were qualified by the lab with the addition of an "I" flag indicating that ratios were outside of the range and that the identity of these analytes have some degree of uncertainty. All the samples were already qualified with a "J" flag due to analyte concentrations below the reporting limit, therefore, further qualification of those samples is not necessary.

Blanks

Equipment blanks, trip blanks, and field blanks were collected as part of the sampling effort. The lab also analyzed method blanks as prescribed in the SOP. Field-generated blanks had no detections indicating samples were not contaminated by field activities or equipment. The laboratory method blanks for the soil samples had detections of PFOS and PFBA below the reporting limit. The corresponding analytes in the samples were qualified or changed in one of the three ways: (1) qualified with a J+ qualifier indicating a high bias (2) the result changed to non-detect at the reporting limit if the amount in the blank and sample were both below the reporting limit and (3) the B flag applied by the lab was removed because the amount in the samples was ten times that of the blank indicating the result was not due to lab contamination. The detailed qualifications for each sample can be found in the attached data review summaries.

Both post treatment method blanks for the TOP Assay analysis had detections of PFBA due to oxidation of the reverse surrogate. The soil method blank had a PFBA detection of 1.12 ug/kg and the water method blank 11.3 ng/L. Although blank subtraction is not typically practiced, the PFBA in this case should be subtracted from the post treatment samples to allow for a more accurate indication of precursor transformation in the sample.

Lab Control Spike

One lab control spike (320-426095/2-A) was outside of the lab derived control limits for PFOS and PFDS with recoveries of 166% and 62%, respectively. PFOS in S9A, S9B, S5, and S10 is biased high and qualified accordingly with a "J+". Results for PFDS in S9A, S9B, S5, and S10 are biased low, therefore, all positive detections are qualified with a "J-" qualifier and non-detects with a "UJ" qualifier.

The lab control spike and lab control spike duplicate for the post treatment TOP Assay soil samples recovered high for PFOS. Therefore, the PFOS detections in the post treatment samples are biased high and qualified with a "J+".

Matrix Spike/Matrix Spike Duplicate

Two matrix spikes and matrix spike duplicates, 460-221262-12 and 460-221262-9, were outside of the control limits for PFUnA. Since the lab control spikes were within the quality control criteria, matrix interferences are suspected. Detections of PFUnA in parent samples, S-11 and Dup1, are qualified as estimated with a “J” flag.

Isotope Dilution Analytes

The isotope dilution analyte recoveries for 6:2FTS and 8:2FTS were outside of the control limits for several soil and water samples:

PC1-SOIL (M26SFTS 188%; M282FTS 209%), PC2-SOIL (M26SFTS 159%; M282FTS 186%), S2-SOIL (M26SFTS 153%), S15-SOIL (M282FTS 178%), S13-SOIL (M282FTS 172%), S2-SOIL (M282FTS 191%), LFWater4 (M262FTS 163%; M282FTS 155%), LFWater7 (M262FTS 166%; M282FTS 151%)

Since the recoveries were outside of the quality control limits, positive detections of the affected native analytes are qualified with a “J” and non-detects qualified with a “UJ”.

Reporting Limits

Reporting limits met the project objectives as outlined in NYSDEC’s Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) PFAS Sampling guidance with a few exceptions. NMeFOSAA, NEtFOSAA, 6:2 FTS, and 8:2 FTS in soil samples and PFBA, NMeFOSAA, NEtFOSAA, and 6:2 FTS in water samples were approximately ten times higher than the reporting limits for the remaining analytes. These analytes can be problematic; therefore, the lab has raised the reporting limits to allow for more accurate and reproducible reporting. The elevated reporting limits for these compounds were approved prior to the start of the project.

SITE Norlite – Cohoes 401041	SDG No. 320-66212-1
LABORATORY Eurofins Test America Sacramento	NO. OF SAMPLES 12
SAMPLE ID HFPCW2-Water-10302020 HFPCW2-Water-10302020 HFW3-Water-10302020 HFW4-Water-10302020 HFW DUP 10302020 HFW-Equipment Blank-10302020 HFW-Field Blank-10302020 HFSCW2-Water-10302020 HFSCW1-Water-10302020 HFW1-Water-10302020 HFPCW3-Water-10302020 HFPCW4-Water-10302020	COMPLETION DATE 12/28/2020
DATES SAMPLED 10/30/2020	ANALYTICAL METHOD Modified 537

PFAS Non-Potable Water

Review Criteria	Acceptance Criteria	Criteria Met (Y/N)	Comments/Action
Preservation and Holding Times	< 14 days to extract, 28 days to analyze extract <10C when received at the lab (not to exceed 10C within the first 48 hours)	Sampled 10/30/2020 Prepared 11/2/2020 Analyzed 11/4/2020 Criteria were met	No action necessary
Calibration	-5 Standards -%RSD <20	Criteria were met	No action necessary
Blanks	No detections above the reporting limit	Criteria were met	No action necessary
Initial Calibration Verification	LL ICV 50-150% HL ICV 70-130%	Criteria were met	No action necessary

Continuing Calibration Checks (CCC)	Frequency – beginning and end of run, and after every 10 th sample 70-130% Recovery	Criteria were met	No action necessary
Duplicates	RPD $\leq$ 30% for analyte concentrations greater than 2x the reporting limit	A field duplicate was collected at location HFW4-Water 10302020 RPDs were <30	No action necessary
MS/MSD	In house limits 70-130% RPD <30%	Criteria were met	No action necessary
Extracted Internal Standards (Isotope Dilution Analytes)	25-150%	Criteria were met	No action necessary
Lab Control Spike	70-130% or in house control limits 1 per 20 samples	Criteria were met	No action necessary
Sample Result Info Accuracy	Sample information on result pages must match COC	Discrepancies were noted in the Case Narrative and samples logged in according to the Chain of Custody	No action necessary
Peak Integration	Peaks must be integrated properly	Peaks were integrated properly	No action necessary
Secondary ion (qualifier ion) monitoring	Secondary ion transition should be monitored, and the ratio of quantifier ion to qualifier ion must be within lab defined criteria	Criteria were not met for the following samples and analytes: <u>HFW3</u> PFNA PFOS <u>HFSCW2</u> PFOS <u>HFSCW1</u> PFBS Analytes were qualified by the lab with an “I” qualifier	No additional qualification necessary

		indicating the ion ratios are outside of the criteria and the identification of those analytes have some degree of uncertainty.	
Signal to noise ratio	Signal to noise ratio should be calculated for each compound. s/n > 3 for quant ion	<u>HFPCW2</u> PFPeA 2.6 PFBS 2.8 <u>HFW2</u> PFPeA 0.9 <u>HFW3</u> PFPeA 1.4 <u>HFW4</u> PFPeA 2.4 <u>HFW DUP</u> PFPeA 2.3 <u>HFW1</u> PFPeA 0.8 PFHxA 2.9 Signal to noise less than 3. However, peaks do not appear to be baseline noise based on peak intensity and shape.	No action necessary
Branched and linear isomers	Both branched and linear isomers should be used for calibration curves and sample quantification	Branched and linear isomers were used	No action necessary
Ion Transitions	PFOA 413 > 369 PFOS 499 > 80 PFHxS 399 > 80 PFBS 299 > 80 6:2 FTS 427 > 407 8:2 FTS 527 > 507 NEtFOSAA 584 > 419 NMeFOSAA 570 > 419	The correct ion transitions were used	No action necessary
Reporting Limits	Must meet project objectives 2 ng/L for PFOA and PFOS	Reporting limits met the project objectives with the following exceptions. The reporting limits for	No action necessary

		NMeFOSAA, NEtFOSAA, 6:2FTS, and PFBA are ~10x higher than other analytes. These elevated reporting limits have been pre-approved by DEC.	
--	--	--	--

Data Reviewed By: DMB

SITE Norlite – Cohoes 401041	SDG No. 460-221262-1
LABORATORY Eurofins Test America Sacramento	NO. OF SAMPLES 28
SAMPLE ID PC1-SOIL-102120 S6B-SOIL-102120 PC2-SOIL-102120 S7A-SOIL-102120 S15-SOIL-102120 S7B-SOIL-102120 S14-SOIL-102120 S8A-SOIL-102120 S13-SOIL-102120 S8B-SOIL-102120 S16-SOIL-102120 S9A-SOIL-102120 S2-SOIL-102120 S9B-SOIL-102120 DUP1-SOIL-102120 S5-Soil-102120 S3-SOIL-102120 S10-Soil-102120 S4-SOIL-102120 TB1-102120 S11-SOIL-102120 TB2-102120 S12-SOIL-102120 Equipment Blank 102120 DUP2-SOIL-102120 Field Blank 102120 S1-SOIL-102120 S6A-SOIL-102120	COMPLETION DATE 1/15/2021
DATES SAMPLED 10/21/2020	ANALYTICAL METHOD Modified 537

PFAS Soil

Review Criteria	Acceptance Criteria	Criteria Met (Y/N)	Comments/Action
Preservation and Holding Times	< 14 days to extract, 28 days to analyze extract <10C when received at the lab (not to exceed 10C within the first 48 hours)	Sampled 10/21/2020 Extracted 10/27/2020, 10/28/2020, 10/30/2020, 11/2/2020 Analyzed 10/28/2020, 10/29/2020, 10/30/2020, 11/1/2020, 11/2/2020, 11/5/2020 *S9A-SOIL, S9B-SOIL, S9B-SOIL MS, S9B- SOIL MSD, S5-SOIL, S10-SOIL were re- prepared out of holding time due to the LCS recovery being outside of the limits. Both sets of data were reported.	Preservation and holding time requirements were met Both sets of results compared within 20%. Recommend reporting results extracted within holding time.

Calibration	5 Standards %RSD <20	Criteria were met	No action necessary
Blanks	No detections above the reporting limit	MB 320-426095/1-A PFOS 0.479J PFBA 0.03895J MB 320-426094/1-A PFOS 0.3275J Equipment blank, trip blanks, and field blanks had no detections.	<u>S11-SOIL</u> PFOS J+ <u>S12-SOIL</u> PFOS change to ND at RL <u>DUP2-SOIL</u> PFOS change to ND at RL <u>S1-SOIL</u> PFOS J+ <u>S6A-SOIL</u> PFOS J+ <u>S6B-SOIL</u> PFOS J+ <u>S7A-SOIL</u> PFOS J+ <u>S7B-SOIL</u> PFOS J+ <u>S8A-SOIL</u> PFOS remove B flag <u>S8B-SOIL</u> PFOS remove B flag <u>S9A-SOIL</u> PFOS J+ PFBA change to ND at RL <u>S9B-SOIL</u> PFOS J+ PFBA change to ND at RL <u>S5-SOIL</u> PFOS J+ PFBA remove B flag <u>S10-SOIL</u> PFOS J+ PFBA remove B flag
Initial Calibration Verification	LL ICV 50-150% HL ICV 70-130%	Criteria were met	No action necessary
Continuing Calibration Checks (CCC)	Frequency – beginning and end of run, and after every 10 th sample 70-130% Recovery	Criteria were met	No action necessary

Duplicates	RPD $\leq$ 30% for analyte concentrations greater than 2x the reporting limit	Duplicates were collected at S2-SOIL and S4-SOIL RPDs were within limits	No action necessary
MS/MSD	In house limits 70-130% RPD <30%	460-221262-12 MS/MSD PFA (133%/145%) 460-221262-9 MS/MSD PFA (148%/151%)	<u>S11-soil</u> PFA J flag <u>Dup1</u> PFA J flag
Extracted Internal Standards (Isotope Dilution Analytes)	25-150%	M262FTS: PC1-SOIL (188%), PC2-SOIL (159%), S2-SOIL (153%) M282FTS: PC1-SOIL (209%), PC2-SOIL (186%), S15-SOIL (178%), S13-SOIL (172%), S2-SOIL (191%)	Corresponding positive detections of the native compounds were qualified by the lab – no additional qualification needed. Qualify non-detects with a UJ.
Lab Control Spike	Lab derived control limits of ~70-130% were used 1 LCS per 20 samples	LCS 320-426095/2-A PFOS (166%) PFDS (62%)	<u>S9A-SOIL-102120</u> PFOS J+ PFDS J- <u>S9B-SOIL-102120</u> PFOS J+ PFDS J- <u>S5-Soil-102120</u> PFOS J+ PFDS UJ <u>S10-Soil-102120</u> PFOS J+ PFDS UJ
Sample Result Info Accuracy	Sample information on result pages must match COC	Sample information on result pages matched the COC	No action necessary
Peak Integration	Peaks must be integrated properly	Peaks were integrated properly	No action necessary
Secondary ion (qualifier ion) monitoring	Secondary ion transition should be monitored, and the ratio of quantifier ion to qualifier ion must	Ion ratios did not meet criteria for <u>S1-SOIL</u> PFA	No additional qualification necessary

	be within lab defined criteria	<u>S6A-SOIL, S6B-SOIL, S7A-SOIL, S9A-SOIL</u> PFHxS Analytes were qualified by the lab with an “I” qualifier indicating the ion ratios are outside of the criteria and the identification of those analytes have some degree of uncertainty.	
Signal to noise ratio	Signal to noise ratio should be calculated for each compound. s/n > 3 for quant ion	<u>PC1-SOIL</u> PFBA 2.1 PFPeA 2.0 <u>S8B-SOIL</u> PFPeA 2.6 Signal to noise ratio was less than 3. However, peaks do not appear to be baseline noise based on peak intensity and shape.	No action necessary
Branched and linear isomers	Both branched and linear isomers should be used for calibration curves and sample quantification	Branched and linear isomers were used	No action necessary
Ion Transitions	PFOA 413 > 369 PFOS 499 > 80 PFHxS 399 > 80 PFBS 299 > 80 6:2 FTS 427 > 407 8:2 FTS 527 > 507 NEtFOSAA 584 > 419 NMeFOSAA 570 > 419	The correct ion transitions were used	No action necessary
Reporting Limits	Must meet project objectives 0.5 ug/kg for all analytes	Reporting limits met the project objectives with the following exceptions. The reporting limits for NMeFOSAA, NEtFOSAA, 6:2FTS, and 8:2 FTS are ~10x	No action necessary

		higher than other analytes. These elevated reporting limits have been pre-approved by DEC. PFOS reporting limits were between 0.5ug/kg and 0.83 ug/kg.	
--	--	--	--

Data Reviewed By: DMB

SITE Norlite – Cohoes 401041	SDG No. 320-66472-1
LABORATORY Eurofins Test America Sacramento	NO. OF SAMPLES 11
SAMPLE ID LF Water 2 11062020 LF Water 3 11062020 LF Water 6 11062020 LF Water 4 11062020 LF Water 5 11062020 LF Water 7 11062020 LF Water 8 11062020 DUP 11062020 Field Blank 11062020 Equipment Blank 11062020 Trip Blank 11062020	COMPLETION DATE 12/28/2020
DATES SAMPLED 11/6/2020	ANALYTICAL METHOD Modified 537

PFAS Non-Potable Water

Review Criteria	Acceptance Criteria	Criteria Met (Y/N)	Comments/Action
Preservation and Holding Times	< 14 days to extract, 28 days to analyze extract <10C when received at the lab (not to exceed 10C within the first 48 hours)	Sample 11/6/2020 Prepared 11/11/2020 Analyzed 11/12/2020 Criteria were met	No action necessary
Calibration	-5 Standards -%RSD <20 -R ² > 0.99 (linear fit)	Criteria were met	No action necessary
Blanks	No detections above the reporting limit	Criteria were met	No action necessary
Initial Calibration Verification	LL ICV 50-150% HL ICV 70-130%	Criteria were met	No action necessary

Continuing Calibration Checks (CCC)	Frequency – beginning and end of run, and after every 10 th sample 70-130% Recovery	Criteria were met	No action necessary
Duplicates	RPD $\leq$ 30% for analyte concentrations greater than 2x the reporting limit	A field duplicate was collected at location LFWater 7 Criteria were met	No action necessary
MS/MSD	In house limits 70-130% RPD <30%	Criteria were met	No action necessary
Extracted Internal Standards (Isotope Dilution Analytes)	25-150%	<u>LFWater4, LFWater7</u> M262FTS (163%, 166%), M282FTS (155%, 151%)	<u>LFWater 4</u> 6:2FTS J 8:2FTS UJ <u>LFWater 7</u> 6:2FTS UJ 8:2FTS UJ
Lab Control Spike	70-130% or in house control limits 1 per 20 samples	Criteria were met	No action necessary
Sample Result Info Accuracy	Sample information on result pages must match COC	Sample information on result pages matched the COC	No action necessary
Peak Integration	Peaks must be integrated properly	Criteria were met	No action necessary
Secondary ion (qualifier ion) monitoring	Secondary ion transition should be monitored, and the ratio of quantifier ion to qualifier ion must be within lab defined criteria	Criteria were met	No action necessary

Signal to noise ratio	Signal to noise ratio should be calculated for each compound. s/n > 3 for quant ion	<u>LF Water 6</u> PFPeA 2.8 Signal to noise less than 3. However, peaks do not appear to be baseline noise based on peak intensity and shape.	No action necessary
Branched and linear isomers	Both branched and linear isomers should be used for calibration curves and sample quantification	Branched and linear isomers were used	No action necessary
Ion Transitions	PFOA 413 > 369 PFOS 499 > 80 PFHxS 399 > 80 PFBS 299 > 80 6:2 FTS 427 > 407 8:2 FTS 527 > 507 NEtFOSAA 584 > 419 NMeFOSAA 570 > 419	The correct ion transitions were used	No action necessary
Reporting Limits	Must meet project objectives 2 ng/L for PFOA and PFOS	Reporting limits met the project objectives with the following exceptions. The reporting limits for NMeFOSAA, NEtFOSAA, 6:2FTS, and PFBA are ~10x higher than other analytes. These elevated reporting limits have been pre-approved by DEC.	No action necessary

Data Reviewed By: DMB

SITE Norlite - Cohoes #401041	SDG No. 320-66473-1
LABORATORY Eurofins Test America - Sacramento	NO. OF SAMPLES 07
SAMPLE ID LFSCW2-Water-11062020 LFSCW1-Water-11062020 LFW1-Water-11062020 LFPCW1-Water-11062020 LFPCW2-Water-11062020 LFPCW3-Water-11062020 LFPCW4-Water-11062020	COMPLETION DATE 12/17/2020
DATES SAMPLED 11/6/2020	ANALYTICAL METHOD Modified 537

PFAS Non-Potable Water

Review Criteria	Acceptance Criteria	Criteria Met (Y/N)	Comments/Action
Preservation and Holding Times	< 14 days to extract, 28 days to analyze extract <10C when received at the lab (not to exceed 10C within the first 48 hours)	Samples 11/6/2020 Prepared 11/13/2020 Analyzed 11/14/2020 Criteria were met	No action necessary
Calibration	5 Standards %RSD <20 R ² > 0.99 (linear fit)	Criteria were met	No action necessary
Blanks	No detections above the reporting limit	Criteria were met	No action necessary
Initial Calibration Verification	LL ICV 50-150% HL ICV 70-130%	Criteria were met	No action necessary
Continuing Calibration Checks (CCC)	Frequency – beginning and end of run, and after every 10 th sample 70-130% Recovery	Criteria were met	No action necessary

Duplicates	RPD $\leq$ 30% for analyte concentrations greater than 2x the reporting limit	A field duplicate was not collected	Could not be evaluated
MS/MSD	In house limits 70-130% RPD <30%	A matrix spike and matrix spike duplicate were not collected	Matrix effects could not be evaluated
Extracted Internal Standards (Isotope Dilution Analytes)	25-150%	Criteria were met	No action necessary
Lab Control Spike	70-130% or in house control limits 1 per 20 samples	Criteria were met	No action necessary
Sample Result Info Accuracy	Sample information on result pages must match COC	Sample information on result pages matches the COC	No action necessary
Peak Integration	Peaks must be integrated properly	Criteria were met	No action necessary
Secondary ion (qualifier ion) monitoring	Secondary ion transition should be monitored, and the ratio of quantifier ion to qualifier ion must be within lab defined criteria	Criteria were met	No action necessary
Signal to noise ratio	Signal to noise ratio should be calculated for each compound. s/n > 3 for quant ion	Criteria were met	No action necessary
Branched and linear isomers	Both branched and linear isomers should be used for calibration curves and sample quantification	Branched and linear isomers were used	No action necessary

Ion Transitions	PFOA 413 > 369 PFOS 499 > 80 PFHxS 399 > 80 PFBS 299 > 80 6:2 FTS 427 > 407 8:2 FTS 527 > 507 NEtFOSAA 584 > 419 NMeFOSAA 570 > 419	The correct ion transitions were used	No action necessary
Reporting Limits	Must meet project objectives 2 ng/L for PFOA and PFOS	Reporting limits met the project objectives with the following exceptions. The reporting limits for NMeFOSAA, NEtFOSAA, 6:2FTS, and 8:2 FTS are ~10x higher than other analytes. These elevated reporting limits have been pre-approved by DEC.	

Data Reviewed By: DMB

SITE Norlite - Cohoes #401041	SDG No. 460-221262-2
LABORATORY Eurofins Test America Sacramento	NO. OF SAMPLES 02
SAMPLE ID S15-SOIL-102120 S8B-SOIL-102120	COMPLETION DATE 1/29/2020
DATES SAMPLED 10/21/2020	ANALYTICAL METHOD TOP Assay via TAL SOP & Modified 537

Total Oxidizable Precursor Assay – PFAS

S15-SOIL-102120

Pre Top PFCA 1.8 ug/kg

Post TOP PFCA 3.0 ug/kg – 1.1 ug/kg (from blank) = 1.9 ug/kg

Difference 0.1 ng/L

S8B-SOIL-102120

Pre Top PFCA 3.1 ug/kg

Post TOP PFCA 6.7 ug/kg – 1.1 ug/kg (from blank) = 5.4 ug/kg

Difference 2.3 ug/kg

Review Criteria	Acceptance Criteria	Criteria Met (Y/N)	Comments/Action
Preservation and Holding Times	< 14 days to extract, 28 days to analyze extract <10C when received at the lab (not to exceed 10C within the first 48 hours)	Sample 10/21/2020 Prepared 10/27/2020 Analyzed 11/02/2020 Criteria were met	No action necessary
Calibration	-5 Standards -%RSD <20	Criteria were met	No action necessary
Blanks	No detections above the reporting limit	MB 320-426024/1-A (Post treatment blank) PFBA 1.12 ug/kg The reverse surrogate M2-4:2FTS is oxidized in the post treatment sample and converted to PFBA. This amount indicates how much	Typically, blank subtraction is not practiced. However, in this instance, if the PFBA in the blank is not subtracted from the post top sample, the increase in post top PFCAs will be biased high. Subtracting a blank value in this instance

		the PFBA in the blank has contributed to the PFBA in the post treatment sample.	will allow for a more accurate indication of precursor transformation in the sample.
Initial Calibration Verification	LL ICV 50-150% HL ICV 70-130%	Criteria were met	No action necessary
Continuing Calibration Checks (CCC)	Frequency – beginning and end of run, and after every 10 th sample 70-130% Recovery	Criteria were met	No action necessary
Extracted Internal Standards (Isotope Dilution Analytes)	50-150%	S15 SOIL M262FTS (159%) M282FTS (153%) S8BSOIL MS62FTS (151%)	No action necessary
Lab Control Spike	70-130% or in house control limits 1 per 20 samples Precursor recovery 0-10%	Post Treatment PFOA (259%/287%) PFBA (139%/145%)	PFOA results in the post treatment sample are biased high Add J+ qualifier
Sample Result Info Accuracy	Sample information on result pages must match COC	Sample information on result pages matched the COC	No action necessary
Peak Integration	Peaks must be integrated properly	Peaks were integrated properly	No action necessary
Secondary ion (qualifier ion) monitoring	Secondary ion transition should be monitored, and the ratio of quantifier ion to qualifier ion must be within lab defined criteria	Criteria were met	No action necessary
Reverse Surrogate	0-10% Recovery of reserve surrogate M2-4:2FTS	Criteria were met, 0% recovery	No action necessary

Signal to noise ratio	Signal to noise ratio should be calculated for each compound. s/n > 3 for quant ion	Criteria were met	No action necessary
Branched and linear isomers	Both branched and linear isomers should be used for calibration curves and sample quantification	Branched and linear isomers were used	No action necessary
Ion Transitions	PFOA 413 > 369 PFOS 499 > 80 PFHxS 399 > 80 PFBS 299 > 80 6:2 FTS 427 > 407 8:2 FTS 527 > 507 NEtFOSAA 584 > 419 NMeFOSAA 570 > 419	The correct ion transitions were used	No action necessary
Reporting Limits	No criteria for TOP Assay	Reporting limits were elevated due to matrix interference. Reporting limits were approximately twice the typical reporting limits	No action necessary

SITE Norlite - Cohoes #401041	SDG No. 320-66472-2
LABORATORY Eurofins Test America Sacramento	NO. OF SAMPLES 02
SAMPLE ID LF Water 4 11062020 LF Water 7 11062020	COMPLETION DATE 1/27/2020
DATES SAMPLED 11/6/2020	ANALYTICAL METHOD TOP Assay via TAL SOP & Modified 537

Total Oxidizable Precursor Assay – PFAS

LF Water 4

Pre Top PFCA 60ng/L

Post TOP PFCA 81 – 11(from blank) = 70 ng/L

Difference 10 ng/L

LF Water 7

Pre Top PFCA 62ng/L

Post TOP PFCA 100 – 11(from blank) = 89 ng/L

Difference 27 ng/L

Review Criteria	Acceptance Criteria	Criteria Met (Y/N)	Comments/Action
Preservation and Holding Times	< 14 days to extract, 28 days to analyze extract <10C when received at the lab (not to exceed 10C within the first 48 hours)	Sample 11/6/2020 Prepared 11/16/2020 Analyzed 11/18/2020 Criteria were met	No action necessary
Calibration	-5 Standards -%RSD <20	Criteria were met	No action necessary
Blanks	No detections above the reporting limit	MB 320-432348/1-A (Post treatment blank) PFBA 11.3 ng/L The reverse surrogate M2-4:2FTS is oxidized in the post treatment sample and converted to PFBA. This amount indicates how much	Typically, blank subtraction is not practiced. However, in this instance, if the PFBA in the blank is not subtracted from the post top sample, the increase in post top PFCAs will be biased high. Subtracting a blank value in this instance

		the PFBA in the blank has contributed to the PFBA in the post treatment sample.	will allow for a more accurate indication of precursor transformation in the sample.
Initial Calibration Verification	LL ICV 50-150% HL ICV 70-130%	Criteria were met	No action necessary
Continuing Calibration Checks (CCC)	Frequency – beginning and end of run, and after every 10 th sample 70-130% Recovery	Criteria were met	No action necessary
Extracted Internal Standards (Isotope Dilution Analytes)	50-150%	Criteria were met	No action necessary
Lab Control Spike	70-130% or in house control limits 1 per 20 samples Precursor recovery 0-10%	Criteria were met	No action necessary
Sample Result Info Accuracy	Sample information on result pages must match COC	Sample information on result pages matched the COC	No action necessary
Peak Integration	Peaks must be integrated properly	Peaks were integrated properly	No action necessary
Secondary ion (qualifier ion) monitoring	Secondary ion transition should be monitored, and the ratio of quantifier ion to qualifier ion must be within lab defined criteria	Criteria were met	No action necessary
Reverse Surrogate	0-10% Recovery of reserve surrogate M2-4:2FTS	Criteria were met, 0% recovery	No action necessary
Signal to noise ratio	Signal to noise ratio should be calculated	Criteria were met	No action necessary

	for each compound. s/n > 3 for quant ion		
Branched and linear isomers	Both branched and linear isomers should be used for calibration curves and sample quantification	Branched and linear isomers were used	No action necessary
Ion Transitions	PFOA 413 > 369 PFOS 499 > 80 PFHxS 399 > 80 PFBS 299 > 80 6:2 FTS 427 > 407 8:2 FTS 527 > 507 NEtFOSAA 584 > 419 NMeFOSAA 570 > 419	The correct ion transitions were used	No action necessary
Reporting Limits	No criteria for TOP Assay	Reporting limits were elevated due to matrix interference. Reporting limits were 5ng/L for all compounds except NMeFOSAA, NEtFOSAA, 6:2FTS, and 8:2FTS at 50ng/L	No action necessary

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Pest Management

625 Broadway, 9th Floor, Albany, New York 12233-7254 7257

P: (518) 402-(518) 402-8768 32-9024

www.dec.ny.gov

Memorandum

To: Mr. Dan Evans, Director, Bureau of Hazardous Waste and Radiation Management

From: *JAM* John A. Miller, Bureau of Pesticides Management, Product Registration Section

Subject: Environmental Sampling Conducted by DEC Associated with Norlite,
Matrix – Soils, Targets – Metals, Eurofins Job Number 460-221262-1

Date: January 21, 2021

The environmental soil samples collected by NYSDEC at the Norlite property were reviewed for quality and usability. Some QC findings, such as the analytical holding time for the hexachrome water blank samples, resulted in that data being unusable. Also, the hexachrome matrix spike recoveries for samples S13-SOIL-102120 and S9B-SOIL-102120 were below its control limits and are also determined to be unusable. All other data were found to be sufficiently accurate, precise, complete and usable for their intended purpose and flagged appropriately by the lab. All “J” flags were due to the result falling above the detection limits but below the reporting limits. Details regarding the QC sample findings are discussed in the sections below.

The following table lists the soil samples that will be covered with this data review for metals by methods 6010D (TAL Metals), 7196A (CrVI) and 7471A (Mercury). These samples are listed in the order that they appear on page 10 of the lab’s pdf report file. Water samples, such as trip blanks, are not listed but their corresponding QC results/findings will be covered in the corresponding section(s) below:

Client Sample ID	Lab Sample ID	Matrix	Collected	Received
PC1-SOIL-102120	460-221262-1	Soil	10/2120 08:45	10/23/20 10:00
PC2-SOIL-102120	460-221262-3	Soil	10/2120 09:30	10/23/20 10:00
S15-SOIL-102120	460-221262-4	Soil	10/2120 10:35	10/23/20 10:00
S14-SOIL-102120	460-221262-5	Soil	10/2120 10:50	10/23/20 10:00
S13-SOIL-102120	460-221262-6	Soil	10/2120 11:05	10/23/20 10:00
S16-SOIL-102120	460-221262-7	Soil	10/2120 11:35	10/23/20 10:00
S2-SOIL-102120	460-221262-8	Soil	10/2120 11:55	10/23/20 10:00
DUP1-SOIL-102120	460-221262-9	Soil	10/2120 00:00	10/23/20 10:00
S3-SOIL-102120	460-221262-10	Soil	10/2120 17:15	10/23/20 10:00
S4-SOIL-102120	460-221262-11	Soil	10/2120 17:49	10/23/20 10:00
S11-SOIL-102120	460-221262-12	Soil	10/2120 17:37	10/23/20 10:00
S12-SOIL-102120	460-221262-13	Soil	10/2120 14:55	10/23/20 10:00
DUP2-SOIL-102120	460-221262-14	Soil	10/2120 00:00	10/23/20 10:00
S1-SOIL-102120	460-221262-15	Soil	10/2120 16:30	10/23/20 10:00
S6A-SOIL-102120	460-221262-17	Soil	10/2120 14:40	10/23/20 10:00



Department of
Environmental
Conservation

Client Sample ID	Lab Sample ID	Matrix	Collected	Received
S6B-SOIL-102120	460-221262-18	Soil	10/21/20 14:50	10/23/20 10:00
S7A-SOIL-102120	460-221262-19	Soil	10/21/20 15:05	10/23/20 10:00
S7B-SOIL-102120	460-221262-20	Soil	10/21/20 15:15	10/23/20 10:00
S8A-SOIL-102120	460-221262-21	Soil	10/21/20 14:00	10/23/20 10:00
S8B-SOIL-102120	460-221262-22	Soil	10/21/20 14:10	10/23/20 10:00
S9A-SOIL-102120	460-221262-23	Soil	10/21/20 15:30	10/23/20 10:00
S9B-SOIL-102120	460-221262-24	Soil	10/21/20 15:45	10/23/20 10:00
S5-SOIL-102120	460-221262-27	Soil	10/21/20 16:48	10/23/20 10:00
S10-SOIL-102120	460-221262-28	Soil	10/21/20 17:15	10/23/20 10:00

Sample Preservation and Analytical Holding Times

On pages 4267 thru 4269 of the lab report are the Login Sample Receipt Checklist pages and they indicate that, with the exception of the water samples, specifically the trip blank, the equipment blank, and the field blank, all soil samples were properly preserved and received and analyzed by the lab within analytical holding times.

The hexachrome method (method 7196A), however, requires a 24-hr holding time for hexachrome analyses of soils after sample extraction and since the blanks are water samples, the clock starts ticking immediately upon filling the sample container. The finding that the blank samples exceeded the hexachrome method holding time indicates that those data are unusable but is inconsequential for the soil samples.

Initial and Continuing Calibration Verification

All initial and continuing calibration recoveries fell within their respective control limits¹ indicating that the sample data can be regarded as sufficiently accurate and precise providing that all other QC criteria are met. There were 22 TAL metals internal standards run and 21 mercury. The following table lists the calibration recovery ranges:

Metal	Min %R	Max %R
Aluminum	96	100
Antimony	97	100
Arsenic	96	102
Barium	97	100
Beryllium	96	105
Cadmium	97	101
Calcium	97	102
Chromium	97	101
Cobalt	99	102
Copper	97	101
Iron	98	102
Lead	96	101
Magnesium	96	104
Manganese	98	101
Nickel	98	101
Potassium	98	109

¹ Mercury limits: 100 ± 15%; All other metals: 100 ± 10%.

Metal	Min %R	Max %R
Selenium	98	103
Silver	97	101
Sodium	97	109
Thallium	99	102
Vanadium	98	108
Zinc	98	101
Mercury	97	109
Cr-VI	99	104

Blank Sample Results

With the exception of potassium and sodium, all reported blank sample results were non-detected. All of the potassium and sodium detections were significantly below their respective reporting limit indicating that these blank results can be disregarded. The reporting limits for both of these metals was 5,000 µg/L (ppb) and the range of potassium values was from 143.2 to 251.0 µg/L while the range of sodium values was from 102.2 to 107.9 µg/L. All blank results for mercury and Cr-VI were non-detect.

Interference Check Sample Recoveries

Four interference check samples were analyzed and all recoveries fell within the $100 \pm 20\%$ control limits indicating that the instrument was capable of overcoming any interfering materials that may have been present within the sample matrix. The following table lists these recoveries and there are no ICS recoveries for mercury and hexachrome:

Metal	1 st %R	2 nd %R	3 rd %R	4 th %R
Aluminum	92	91	89	89
Antimony	106	95	99	90
Arsenic	93	97	100	100
Barium	98	94	98	96
Beryllium	99	96	93	99
Cadmium	98	93	95	95
Calcium	101	100	101	96
Chromium	100	99	101	98
Cobalt	98	95	97	95
Copper	98	96	108	106
Iron	99	98	98	94
Lead	101	91	84	94
Magnesium	102	99	102	99
Manganese	103	98	90	100
Nickel	94	93	95	90
Potassium	103	101	103	100
Selenium	93	98	99	93
Silver	100	98	102	105
Sodium	105	101	105	104
Thallium	89	95	91	96
Vanadium	99	95	99	96

Metal	1 st %R	2 nd %R	3 rd %R	4 th %R
Zinc	95	94	96	93

Matrix Spike and Matrix Spike Duplicate Recoveries and RPDs

Samples S13-SOIL-102120 and S9B-SOIL-102120 (MS 2) were run as matrix spikes for the TAL metals and it does not appear that a matrix spike duplicate was run although it does appear on the chain-of-custody that a MS/MSD pair was requested for sample S13-SOIL-102120. As a result, no relative percent difference value on the pages of the report are available for review.

It can be seen in the following table that both matrix spike recoveries for antimony fell below the control limits which indicates that there may be a low bias in the corresponding environmental sample data (hence the “F1” qualifier).

The qualifier “4” for the aluminum, iron and manganese recoveries indicates that the amount found in the original samples was greater than or equal to four times the amount spiked (four times rule), which indicates that the difference between what was in the samples before and after spiking falls within the method margin of error so no meaningful finding can be made for those metals based on the spike recoveries.

For all of the TAL metals with spike recoveries falling within their control limits, it’s indicated that the sample data can be regarded as sufficiently accurate and unbiased with respect to any interfering materials that may have been present within the sample matrix. The matrix spike samples used for the hexachrome analyses were samples S13-SOIL-102120 and S9B-SOIL-102120 and the recoveries fell below the control limits and those corresponding sample results for those samples only are flagged with the F1 qualifier and should be regarded as unusable. Those hexachrome recoveries ranged from 26% to 45%.

Metal	S13-SOIL-102120 %R	Data Qualifier	S9B-SOIL-102120 %R	Data Qualifier	Control Limits %R
Aluminum	1136	4	389	4	75-125
Antimony	45	F1	32	F1	75-125
Arsenic	95		94		75-125
Barium	105		90		75-125
Beryllium	98		93		75-125
Cadmium	96		95		75-125
Calcium	95		84		75-125
Chromium	101		105		75-125
Cobalt	98		94		75-125
Copper	93		93		75-125
Iron	972	4	-334	4	75-125
Lead	100		109		75-125
Magnesium	96		95		75-125
Manganese	579	4	69	4	75-125
Nickel	100		96		75-125
Potassium	99		88		75-125
Selenium	92		92		75-125

Metal	S13-SOIL- 102120 %R	Data Qualifier	S9B-SOIL- 102120 %R	Data Qualifier	Control Limits %R
Silver	93		90		75-125
Sodium	100		94		75-125
Thallium	98		97		75-125
Vanadium	101		93		75-125
Zinc	102		89		75-125
Mercury	110		108		80-120
Hexachrome	51.0 – 51.9	F1	26 - 32	F1	75-125

Laboratory Control Sample Recoveries - Liquid

The following table lists the method 6010D metal recoveries from the analysis of the laboratory control sample in a liquid matrix and it can be seen that all recoveries fell within the $100 \pm 20\%$ control limits indicating that the lab was capable of performing these analyses as per method specifications at the levels listed in the “True” column using a clean matrix. There were four sets of LCS results for hexachrome:

Metal	True (µg/L)	Found (µg/L)	%R	Control Limits
Aluminum	2,000	2,002	100	80-120
Antimony	500	473.7	95	80-120
Arsenic	2,000	2,085	104	80-120
Barium	2,000	2,033	102	80-120
Beryllium	50.0	49.74	99	80-120
Cadmium	50.0	52.05	104	80-120
Calcium	20,000	20,280	101	80-120
Chromium	200	208.3	104	80-120
Cobalt	500	522.5	105	80-120
Copper	250	254.6	102	80-120
Iron	1,000	1,047	105	80-120
Lead	500	519.4	104	80-120
Magnesium	20,000	20,510	103	80-120
Manganese	500	516.4	103	80-120
Nickel	500	520.1	104	80-120
Potassium	20,000	19,230	96	80-120
Selenium	2,000	2,022	101	80-120
Silver	50.0	51.99	104	80-120
Sodium	20,000	19,290	96	80-120
Thallium	2,000	2,069	103	80-120
Vanadium	500	521.1	104	80-120
Zinc	500	518.6	104	80-120

Laboratory Control Sample Recoveries - Solid

Several laboratory control samples were analyzed and the following tables list the method 6010D metal recoveries from the analysis of the laboratory control sample in a certified solid matrix and it can be seen that all recoveries fell within their respective control limits indicating that the lab was capable of performing these analyses as per method specifications at the levels listed in the “True” column using a clean matrix:

Metal	True (mg/Kg)	Found 1 (mg/Kg)	%R 1	Found 2 (mg/Kg)	%R 2	Found 3 (mg/Kg)	%R 3	Control Limits
Aluminum	8,460	7,406	87.5	7,294	86.2	8,051	95.2	50.4-150.1
Antimony	120	78.5	65.4	77.36	64.5	74.34	61.9	4.8-195.0
Arsenic	95.5	93.84	98.3	91.58	95.9	96.34	100.9	82.8-117.3
Barium	300	295.0	98.3	281.2	93.7	304.0	101.3	82.3-117.7
Beryllium	103	100.2	97.3	96.96	94.1	111.0	107.8	82.8-116.5
Cadmium	135	132.8	98.4	135	131.1	137.6	101.9	83.0-117.8
Calcium	4,720	4,520	95.8	4,578	97.0	5,065	107.3	81.6-118.6
Chromium	147	142.7	97.1	138.5	94.2	149.3	101.6	82.3-117.7
Cobalt	43.2	43.48	100.6	42.16	97.6	45.23	104.7	83.8-116.2
Copper	150	148.4	99.0	145.6	97.1	155.7	103.8	84.0-116.0
Iron	14,400	14,030	97.4	14,200	98.6	15,330	106.5	61.3-138.9
Lead	92.3	92.38	100.1	89.12	96.6	95.05	103.0	83.1-117.0
Magnesium	2,300	2,170	94.3	2,134	92.8	2,370	103.1	75.7-124.3
Manganese	677	659.4	97.4	671.2	99.1	688.7	101.7	82.0-118.2
Nickel	59.8	59.86	100.1	59.70	99.8	62.14	103.9	82.6-117.6
Potassium	2,030	1,946	95.9	1,868	92.0	2,085	102.7	70.0-130.0
Selenium	42.0	41.04	97.7	41.16	98.0	42.69	101.7	79.5-120.5
Silver	40.3	37.72	93.6	36.60	90.8	41.39	102.7	80.6-119.4
Sodium	139	132.8	95.5	119.9	86.2	130.6	93.9	71.9-127.3
Thallium	83.1	85.54	102.9	85.18	102.5	89.86	108.1	81.0-119.0
Vanadium	96.9	94.72	97.8	91.90	94.8	105.9	109.3	79.2-120.7
Zinc	369	357.6	96.9	358.8	97.2	374.5	101.5	80.8-119.2
Hexachrome ²	15.6	14.24 – 15.67	91.5- 100.7					84.2-114.5

ICP Serial Dilution Percent Differences

All serial dilution percent differences fell below the 10% control limit maximum indicating the absence of any significant biases in the sample data due to the sample matrix. These percent differences ranged from 0.62 percent for aluminum to 3.0 percent for manganese.

All questions regarding this data review can be sent via phone call or email to:

John Miller

ecc JMiller's Files: Env Sampling Conducted by DEC Associated with Norlite.Data
Review.Metals.JAM.docx

² There were four sets of LCS results for hexachrome and what appears in the table are the ranges.

Appendix E2 – Category B Analytical Data Packages

Available on Request