NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that passes a size 100 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

4 discrete samples were analyzed for VOCs and 5 composite samples were analyzed for SVOCs, PCBs, Pesticides/Herbicides, Metals, Cyanide, PFAS and 1,4-Dioxane and Cyanide.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

The results for parameters required by DER-10 are included in Attachment 1.

VOCs - methylene chloride and acetone we detected in VOC samples below the Commercial or Industrial Use SCO.

SVOCs, PCBs, Pesticides, 1,4-Dioxane, and PFAS were non-detect.

Various Metals were detected but concentrations are below the Commercial and Industrial Use SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Stephen A. Valente, Quality Representative, RJ Valente Gravel

Location where fill was obtained:

RJ Valente, George Thompson Road, Mechanicville, NY 12118

Identification of any state or local approvals as a fill source:

Mine ID 50049 (Luther Mine Forest)

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Attachments 1 -Results of DER-10 Parameter Analytical Testing

The information provided on this form is accurate and complete.

BFTaylor@BrwnCald.com Digitally signed by BFTaylor@BrwnCald.com DN: CN=BFTaylor@BrwnCald.com Date: 2025.09.17 14:28:24-04'00'

Signature

9/17/2025

Date

Brian Taylor

Print Name

Brown and Caldwell

Firm

Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

June 27, 2024

Matthew Root
National Grid
1125 Broadway
Albany, NY 12204

TEL: (518) 433-3696

Work Order No: 240613048
PO#: 6200005633

RE: Analysis of Samples
Railroad Ave Import

Adirondack Environmental Services, Inc received 7 samples on 6/13/2024 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Christopher Hess
QA Manager

Adirondack Environmental Services, Inc — CASE NARRATIVE

National Grid

Analysis of Samples

Railroad Ave Import

Date: *27-Jun-24*

Lab WorkOrder: **240613048**

Sample containers were supplied by Adirondack Environmental Services.

1,4-Dioxane analysis was performed by Eurofins - ELAP #10670

EPA 1633 analysis was performed by York Analytical Laboratories ELAP ID: 12058. A copy of the report is attached.

Too much soil was added to sample Import-1-20240613 vials submitted and these could not be analyzed on the instrument. Since it has been less than 48 hours since collection, two sub samples were immediately transferred to proper vessels and stored in freezer awaiting analysis. The results may be biased low due to the sample not being collected according to EPA Method 5035 specifications.

Analytical Comments for EPA Method 8260: Samples Import-2-20240613, Import-3-20240613 and Import-4-20240613 had a low recovery for the internal standards Fluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4.

Definitions - RL: Reporting Limit DF: Dilution factor

Qualifiers:		
	ND : Not Detected at reporting limit	C: CCV below acceptable Limits
	J: Analyte detected below quantitation limit	C+: CCV above acceptable Limits
	B: Analyte detected in Blank	S: LCS Spike recovery is below acceptable limits
	X : Exceeds maximum contamination limit	S+: LCS Spike recovery is above acceptable limits
	H: Hold time exceeded	Z: Duplication outside acceptable limits
	N: Matrix Spike below acceptable limits	T : Tentatively Identified Compound-Estimated
	N+: Matrix Spike is above acceptable limits	E :Above quantitation range-Estimated

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-1-20240613
Collection Date: 6/13/2024 11:25:00 AM
Lab Sample ID: 240613048-001
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **DM**
(Prep: SW5035A - 6/18/2024)						
Chloromethane	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
Bromomethane	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
Vinyl chloride	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
Chloroethane	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
Methylene chloride	**13**	7	B	µg/Kg	1	6/18/2024 12:55:00 PM
Acetone	**91**	14	S+C+B	µg/Kg	1	6/18/2024 12:55:00 PM
Carbon disulfide	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,1-Dichloroethene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,1-Dichloroethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
trans-1,2-Dichloroethene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
cis-1,2-Dichloroethene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Chloroform	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,2-Dichloroethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
2-Butanone	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
1,1,1-Trichloroethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Carbon tetrachloride	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Bromodichloromethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,2-Dichloropropane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
cis-1,3-Dichloropropene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Trichloroethene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Dibromochloromethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,1,2-Trichloroethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Benzene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
trans-1,3-Dichloropropene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Bromoform	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
4-Methyl-2-pentanone	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
2-Hexanone	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
Tetrachloroethene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,1,2,2-Tetrachloroethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Toluene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Chlorobenzene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Ethylbenzene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Styrene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
m,p-Xylene	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
o-Xylene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Methyl tert-butyl ether	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
Dichlorodifluoromethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Methyl Acetate	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Trichlorofluoromethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Cyclohexane	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-1-20240613
Collection Date: 6/13/2024 11:25:00 AM
Lab Sample ID: 240613048-001
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **DM**
(Prep: SW5035A - 6/18/2024)						
Methyl Cyclohexane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,2-Dibromoethane	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,3-Dichlorobenzene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Isopropylbenzene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,2-Dichlorobenzene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,4-Dichlorobenzene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
1,2-Dibromo-3-chloropropane	**ND**	14		µg/Kg	1	6/18/2024 12:55:00 PM
1,2,4-Trichlorobenzene	**ND**	7		µg/Kg	1	6/18/2024 12:55:00 PM
Surr: 1,2-Dichloroethane-d4	**97.9**	64.8-130		%REC	1	6/18/2024 12:55:00 PM
Surr: 4-Bromofluorobenzene	**92.9**	76.8-122		%REC	1	6/18/2024 12:55:00 PM
Surr: Toluene-d8	**112**	78.5-120		%REC	1	6/18/2024 12:55:00 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-2-20240613
Collection Date: 6/13/2024 11:28:00 AM
Lab Sample ID: 240613048-002
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **DM**
(Prep: SW5035A - 6/18/2024)						
Chloromethane	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
Bromomethane	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
Vinyl chloride	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
Chloroethane	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
Methylene chloride	**10**	4	B	µg/Kg	1	6/18/2024 1:18:00 PM
Acetone	**86**	8	S+C+B	µg/Kg	1	6/18/2024 1:18:00 PM
Carbon disulfide	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,1-Dichloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,1-Dichloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
trans-1,2-Dichloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
cis-1,2-Dichloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Chloroform	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,2-Dichloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
2-Butanone	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
1,1,1-Trichloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Carbon tetrachloride	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Bromodichloromethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,2-Dichloropropane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
cis-1,3-Dichloropropene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Trichloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Dibromochloromethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,1,2-Trichloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Benzene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
trans-1,3-Dichloropropene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Bromoform	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
4-Methyl-2-pentanone	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
2-Hexanone	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
Tetrachloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,1,2,2-Tetrachloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Toluene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Chlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Ethylbenzene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Styrene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
m,p-Xylene	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
o-Xylene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Methyl tert-butyl ether	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
Dichlorodifluoromethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Methyl Acetate	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Trichlorofluoromethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Cyclohexane	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-2-20240613
Collection Date: 6/13/2024 11:28:00 AM
Lab Sample ID: 240613048-002
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **DM**
(Prep: SW5035A - 6/18/2024)						
Methyl Cyclohexane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,2-Dibromoethane	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,3-Dichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Isopropylbenzene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,2-Dichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,4-Dichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
1,2-Dibromo-3-chloropropane	**ND**	8		µg/Kg	1	6/18/2024 1:18:00 PM
1,2,4-Trichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:18:00 PM
Surr: 1,2-Dichloroethane-d4	**73.8**	64.8-130		%REC	1	6/18/2024 1:18:00 PM
Surr: 4-Bromofluorobenzene	**88.9**	76.8-122		%REC	1	6/18/2024 1:18:00 PM
Surr: Toluene-d8	**121**	78.5-120	S	%REC	1	6/18/2024 1:18:00 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-3-20240613
Collection Date: 6/13/2024 11:30:00 AM
Lab Sample ID: 240613048-003
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **DM**
(Prep: SW5035A - 6/18/2024)						
Chloromethane	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
Bromomethane	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
Vinyl chloride	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
Chloroethane	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
Methylene chloride	**13**	4	B	µg/Kg	1	6/18/2024 1:42:00 PM
Acetone	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
Carbon disulfide	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,1-Dichloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,1-Dichloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
trans-1,2-Dichloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
cis-1,2-Dichloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Chloroform	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,2-Dichloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
2-Butanone	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
1,1,1-Trichloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Carbon tetrachloride	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Bromodichloromethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,2-Dichloropropane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
cis-1,3-Dichloropropene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Trichloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Dibromochloromethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,1,2-Trichloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Benzene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
trans-1,3-Dichloropropene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Bromoform	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
4-Methyl-2-pentanone	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
2-Hexanone	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
Tetrachloroethene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,1,2,2-Tetrachloroethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Toluene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Chlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Ethylbenzene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Styrene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
m,p-Xylene	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
o-Xylene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Methyl tert-butyl ether	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
Dichlorodifluoromethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Methyl Acetate	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Trichlorofluoromethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Cyclohexane	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-3-20240613
Collection Date: 6/13/2024 11:30:00 AM
Lab Sample ID: 240613048-003
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **DM**
(Prep: SW5035A - 6/18/2024)						
Methyl Cyclohexane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,2-Dibromoethane	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,3-Dichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Isopropylbenzene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,2-Dichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,4-Dichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
1,2-Dibromo-3-chloropropane	**ND**	9		µg/Kg	1	6/18/2024 1:42:00 PM
1,2,4-Trichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 1:42:00 PM
Surr: 1,2-Dichloroethane-d4	**82.3**	64.8-130		%REC	1	6/18/2024 1:42:00 PM
Surr: 4-Bromofluorobenzene	**83.0**	76.8-122		%REC	1	6/18/2024 1:42:00 PM
Surr: Toluene-d8	**122**	78.5-120	S	%REC	1	6/18/2024 1:42:00 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-4-20240613
Collection Date: 6/13/2024 11:32:00 AM
Lab Sample ID: 240613048-004
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **DM**
(Prep: SW5035A - 6/18/2024)						
Chloromethane	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
Bromomethane	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
Vinyl chloride	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
Chloroethane	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
Methylene chloride	**14**	4	B	µg/Kg	1	6/18/2024 2:05:00 PM
Acetone	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
Carbon disulfide	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,1-Dichloroethene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,1-Dichloroethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
trans-1,2-Dichloroethene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
cis-1,2-Dichloroethene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Chloroform	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,2-Dichloroethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
2-Butanone	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
1,1,1-Trichloroethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Carbon tetrachloride	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Bromodichloromethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,2-Dichloropropane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
cis-1,3-Dichloropropene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Trichloroethene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Dibromochloromethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,1,2-Trichloroethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Benzene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
trans-1,3-Dichloropropene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Bromoform	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
4-Methyl-2-pentanone	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
2-Hexanone	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
Tetrachloroethene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,1,2,2-Tetrachloroethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Toluene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Chlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Ethylbenzene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Styrene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
m,p-Xylene	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
o-Xylene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Methyl tert-butyl ether	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
Dichlorodifluoromethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Methyl Acetate	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Trichlorofluoromethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Cyclohexane	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-4-20240613
Collection Date: 6/13/2024 11:32:00 AM
Lab Sample ID: 240613048-004
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-EPA 8260C (SW5035A PREP)						Analyst: **DM**
(Prep: SW5035A - 6/18/2024)						
Methyl Cyclohexane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,2-Dibromoethane	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,3-Dichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Isopropylbenzene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,2-Dichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,4-Dichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
1,2-Dibromo-3-chloropropane	**ND**	7		µg/Kg	1	6/18/2024 2:05:00 PM
1,2,4-Trichlorobenzene	**ND**	4		µg/Kg	1	6/18/2024 2:05:00 PM
Surr: 1,2-Dichloroethane-d4	**71.3**	64.8-130		%REC	1	6/18/2024 2:05:00 PM
Surr: 4-Bromofluorobenzene	**80.5**	76.8-122		%REC	1	6/18/2024 2:05:00 PM
Surr: Toluene-d8	**121**	78.5-120	S	%REC	1	6/18/2024 2:05:00 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-5-20240613
Collection Date: 6/13/2024 11:40:00 AM
Lab Sample ID: 240613048-005
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES - EPA 8081B						Analyst: **KF**
(Prep: SW3545A - 6/17/2024)						
4,4´-DDD	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:23:05 PM
4,4´-DDE	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:23:05 PM
4,4´-DDT	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Aldrin	**ND**	1.7		µg/Kg-dry	1	6/18/2024 3:23:05 PM
alpha-BHC	**ND**	1.7		µg/Kg-dry	1	6/18/2024 3:23:05 PM
alpha-Chlordane	**ND**	1.7		µg/Kg-dry	1	6/18/2024 3:23:05 PM
beta-BHC	**ND**	1.7		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Chlordane	**ND**	170		µg/Kg-dry	1	6/18/2024 3:23:05 PM
delta-BHC	**ND**	1.7	S	µg/Kg-dry	1	6/18/2024 3:23:05 PM
Dieldrin	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Endosulfan I	**ND**	1.7		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Endosulfan II	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Endosulfan sulfate	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Endrin	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Endrin aldehyde	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Endrin ketone	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:23:05 PM
gamma-BHC	**ND**	1.7		µg/Kg-dry	1	6/18/2024 3:23:05 PM
gamma-Chlordane	**ND**	1.7		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Heptachlor	**ND**	1.7		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Heptachlor epoxide	**ND**	2.1		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Methoxychlor	**ND**	17		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Toxaphene	**ND**	170		µg/Kg-dry	1	6/18/2024 3:23:05 PM
Surr: Decachlorobiphenyl	**127**	48.1-135		%REC	1	6/18/2024 3:23:05 PM
Surr: Tetrachloro-m-xylene	**107**	44.6-139		%REC	1	6/18/2024 3:23:05 PM
POLYCHLORINATED BIPHENYLS - EPA 8082A						Analyst: **KF**
(Prep: SW3545A - 6/17/2024)						
PCB, Total	**ND**	1.0		µg/g-dry	1	6/18/2024 3:23:05 PM
Surr: Decachlorobiphenyl	**127**	48.1-152		%REC	1	6/18/2024 3:23:05 PM
CHLORINATED HERBICIDES - EPA 8321B						Analyst: **JW**
(Prep: SW3545A - 6/24/2024)						
2,4-D	**ND**	1300		µg/Kg-dry	1	6/26/2024 10:17:03 AM
2,4,5-T	**ND**	310		µg/Kg-dry	1	6/26/2024 10:17:03 AM
2,4,5-TP (Silvex)	**ND**	310		µg/Kg-dry	1	6/26/2024 10:17:03 AM
Surr: Acifluorfen	**97.0**	51.2-145		%REC	1	6/26/2024 10:17:03 AM
ICP METALS-EPA 6010C						Analyst: **WB**
(Prep: SW3050B - 6/14/2024)						
Aluminum	**6270**	51.3		µg/g-dry	10	6/14/2024 3:06:58 PM
Antimony	**ND**	3.08		µg/g-dry	1	6/14/2024 3:02:43 PM
Arsenic	**1.67**	0.257		µg/g-dry	1	6/14/2024 3:02:43 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-5-20240613
Collection Date: 6/13/2024 11:40:00 AM
Lab Sample ID: 240613048-005
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS-EPA 6010C						Analyst: **WB**
(Prep: SW3050B - 6/14/2024)						
Barium	**21.8**	0.513		µg/g-dry	1	6/14/2024 3:02:43 PM
Beryllium	**ND**	0.257		µg/g-dry	1	6/14/2024 3:02:43 PM
Cadmium	**1.96**	0.257		µg/g-dry	1	6/14/2024 3:02:43 PM
Calcium	**42300**	2600		µg/g-dry	100	6/18/2024 6:35:07 PM
Chromium	**6.19**	0.257		µg/g-dry	1	6/14/2024 3:02:43 PM
Cobalt	**3.98**	2.57		µg/g-dry	1	6/14/2024 3:02:43 PM
Copper	**10.9**	0.257		µg/g-dry	1	6/14/2024 3:02:43 PM
Iron	**17800**	260		µg/g-dry	100	6/18/2024 6:35:07 PM
Lead	**2.02**	0.257		µg/g-dry	1	6/14/2024 3:02:43 PM
Magnesium	**10800**	257		µg/g-dry	10	6/14/2024 3:06:58 PM
Manganese	**142**	0.513		µg/g-dry	1	6/14/2024 3:02:43 PM
Nickel	**8.65**	2.57		µg/g-dry	1	6/14/2024 3:02:43 PM
Potassium	**962**	25.7		µg/g-dry	1	6/14/2024 3:02:43 PM
Selenium	**ND**	0.257		µg/g-dry	1	6/14/2024 3:02:43 PM
Silver	**ND**	1.03		µg/g-dry	1	6/14/2024 3:02:43 PM
Sodium	**299**	25.7		µg/g-dry	1	6/14/2024 3:02:43 PM
Thallium	**ND**	0.513		µg/g-dry	1	6/14/2024 3:02:43 PM
Vanadium	**8.29**	2.57		µg/g-dry	1	6/14/2024 3:02:43 PM
Zinc	**25.4**	0.513		µg/g-dry	1	6/14/2024 3:02:43 PM
MERCURY - SW 7471B						Analyst: **AF**
(Prep: SW7471B - 6/14/2024)						
Mercury	**ND**	0.020		µg/g-dry	1	6/14/2024 10:55:20 AM
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **KL**
(Prep: SW3545A - 6/18/2024)						
Phenol	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Bis(2-chloroethyl)ether	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2-Chlorophenol	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
1,3-Dichlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
1,4-Dichlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
1,2-Dichlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2-Methylphenol	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2,2-Oxybis(1-chloropropane)	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
4-Methylphenol & 3-Methlyphenol	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
N-Nitrosodi-n-propylamine	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Hexachloroethane	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Nitrobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Isophorone	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2-Nitrophenol	**ND**	1700		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2,4-Dimethylphenol	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Bis(2-chloroethoxy)methane	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-5-20240613
Collection Date: 6/13/2024 11:40:00 AM
Lab Sample ID: 240613048-005
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **KL**
(Prep: SW3545A - 6/18/2024)						
2,4-Dichlorophenol	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
1,2,4-Trichlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Naphthalene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
4-Chloroaniline	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Hexachlorobutadiene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
4-Chloro-3-methylphenol	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2-Methylnaphthalene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Hexachlorocyclopentadiene	**ND**	340	S	µg/Kg-dry	1	6/26/2024 10:55:00 AM
2,4,6-Trichlorophenol	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2,4,5-Trichlorophenol	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2-Chloronaphthalene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2-Nitroaniline	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Dimethyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Acenaphthylene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2,6-Dinitrotoluene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
3-Nitroaniline	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Acenaphthene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2,4-Dinitrophenol	**ND**	1700	S	µg/Kg-dry	1	6/26/2024 10:55:00 AM
4-Nitrophenol	**ND**	1700		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Dibenzofuran	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
2,4-Dinitrotoluene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Diethyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
4-Chlorophenyl phenyl ether	**ND**	350		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Fluorene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
4-Nitroaniline	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
4,6-Dinitro-2-methylphenol	**ND**	1700	S	µg/Kg-dry	1	6/26/2024 10:55:00 AM
N-Nitrosodiphenylamine	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
4-Bromophenyl phenyl ether	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Hexachlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Pentachlorophenol	**ND**	1700		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Phenanthrene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Anthracene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Carbazole	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Di-n-butyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Fluoranthene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Pyrene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Butyl benzyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
3,3´-Dichlorobenzidine	**ND**	1700		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Benz(a)anthracene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Chrysene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Bis(2-ethylhexyl)phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-5-20240613
Collection Date: 6/13/2024 11:40:00 AM
Lab Sample ID: 240613048-005
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **KL**
(Prep: SW3545A - 6/18/2024)						
Di-n-octyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Benzo(b)fluoranthene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Benzo(k)fluoranthene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Benzo(a)pyrene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Indeno(1,2,3-cd)pyrene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Dibenz(a,h)anthracene	**ND**	340		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Benzo(g,h,i)perylene	**ND**	360		µg/Kg-dry	1	6/26/2024 10:55:00 AM
Surr: 2,4,6-Tribromophenol	**41.9**	26.5-126		%REC	1	6/26/2024 10:55:00 AM
Surr: 2-Fluorobiphenyl	**36.4**	32-136		%REC	1	6/26/2024 10:55:00 AM
Surr: 2-Fluorophenol	**39.3**	30.3-104		%REC	1	6/26/2024 10:55:00 AM
Surr: 4-Terphenyl-d14	**38.2**	30.1-145		%REC	1	6/26/2024 10:55:00 AM
Surr: Nitrobenzene-d5	**36.7**	19.5-123		%REC	1	6/26/2024 10:55:00 AM
Surr: Phenol-d5	**48.1**	27-122		%REC	1	6/26/2024 10:55:00 AM
SEMI-VOLATILE ORGANICS - EPA 8270D SIM						Analyst: **10670**
6/24/2024)						
1,4-Dioxane	**ND**	3.1		µg/Kg-dry	1	6/26/2024 1:47:00 PM
CYANIDE, TOTAL - SW 9012B						Analyst: **GK**
(Prep: 9010C - 6/25/2024)						
Cyanide	**ND**	0.51		µg/g-dry	1	6/25/2024 3:00:00 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **KM**
Percent Moisture	**2.6**	0.1		wt%	1	6/18/2024

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-6-20240613
Collection Date: 6/13/2024 11:50:00 AM
Lab Sample ID: 240613048-006
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES - EPA 8081B						Analyst: **KF**
(Prep: SW3545A - 6/17/2024)						
4,4´-DDD	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:35:55 PM
4,4´-DDE	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:35:55 PM
4,4´-DDT	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Aldrin	**ND**	1.8		µg/Kg-dry	1	6/18/2024 3:35:55 PM
alpha-BHC	**ND**	1.8		µg/Kg-dry	1	6/18/2024 3:35:55 PM
alpha-Chlordane	**ND**	1.8		µg/Kg-dry	1	6/18/2024 3:35:55 PM
beta-BHC	**ND**	1.8		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Chlordane	**ND**	180		µg/Kg-dry	1	6/18/2024 3:35:55 PM
delta-BHC	**ND**	1.8	S	µg/Kg-dry	1	6/18/2024 3:35:55 PM
Dieldrin	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Endosulfan I	**ND**	1.8		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Endosulfan II	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Endosulfan sulfate	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Endrin	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Endrin aldehyde	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Endrin ketone	**ND**	3.4		µg/Kg-dry	1	6/18/2024 3:35:55 PM
gamma-BHC	**ND**	1.8		µg/Kg-dry	1	6/18/2024 3:35:55 PM
gamma-Chlordane	**ND**	1.8		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Heptachlor	**ND**	1.8		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Heptachlor epoxide	**ND**	2.1		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Methoxychlor	**ND**	18		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Toxaphene	**ND**	180		µg/Kg-dry	1	6/18/2024 3:35:55 PM
Surr: Decachlorobiphenyl	**119**	48.1-135		%REC	1	6/18/2024 3:35:55 PM
Surr: Tetrachloro-m-xylene	**102**	44.6-139		%REC	1	6/18/2024 3:35:55 PM
POLYCHLORINATED BIPHENYLS - EPA 8082A						Analyst: **KF**
(Prep: SW3545A - 6/17/2024)						
PCB, Total	**ND**	1.0		µg/g-dry	1	6/18/2024 3:35:55 PM
Surr: Decachlorobiphenyl	**119**	48.1-152		%REC	1	6/18/2024 3:35:55 PM
CHLORINATED HERBICIDES - EPA 8321B						Analyst: **JW**
(Prep: SW3545A - 6/24/2024)						
2,4-D	**ND**	1300		µg/Kg-dry	1	6/26/2024 10:38:38 AM
2,4,5-T	**ND**	310		µg/Kg-dry	1	6/26/2024 10:38:38 AM
2,4,5-TP (Silvex)	**ND**	310		µg/Kg-dry	1	6/26/2024 10:38:38 AM
Surr: Acifluorfen	**94.2**	51.2-145		%REC	1	6/26/2024 10:38:38 AM
ICP METALS-EPA 6010C						Analyst: **WB**
(Prep: SW3050B - 6/14/2024)						
Aluminum	**5980**	51.6		µg/g-dry	10	6/14/2024 3:22:11 PM
Antimony	**ND**	3.10		µg/g-dry	1	6/14/2024 3:17:53 PM
Arsenic	**1.94**	0.258		µg/g-dry	1	6/14/2024 3:17:53 PM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-6-20240613
Collection Date: 6/13/2024 11:50:00 AM
Lab Sample ID: 240613048-006
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS-EPA 6010C						Analyst: **WB**
(Prep: SW3050B - 6/14/2024)						
Barium	**27.2**	0.516		µg/g-dry	1	6/14/2024 3:17:53 PM
Beryllium	**ND**	0.258		µg/g-dry	1	6/14/2024 3:17:53 PM
Cadmium	**2.12**	0.258		µg/g-dry	1	6/14/2024 3:17:53 PM
Calcium	**33900**	2600		µg/g-dry	100	6/18/2024 6:41:44 PM
Chromium	**6.29**	0.258		µg/g-dry	1	6/14/2024 3:17:53 PM
Cobalt	**4.46**	2.58		µg/g-dry	1	6/14/2024 3:17:53 PM
Copper	**11.9**	0.258		µg/g-dry	1	6/14/2024 3:17:53 PM
Iron	**17300**	260		µg/g-dry	100	6/18/2024 6:41:44 PM
Lead	**2.74**	0.258		µg/g-dry	1	6/14/2024 3:17:53 PM
Magnesium	**8760**	258		µg/g-dry	10	6/14/2024 3:22:11 PM
Manganese	**192**	0.516		µg/g-dry	1	6/14/2024 3:17:53 PM
Nickel	**9.67**	2.58		µg/g-dry	1	6/14/2024 3:17:53 PM
Potassium	**1080**	25.8		µg/g-dry	1	6/14/2024 3:17:53 PM
Selenium	**ND**	0.258		µg/g-dry	1	6/14/2024 3:17:53 PM
Silver	**ND**	1.03		µg/g-dry	1	6/14/2024 3:17:53 PM
Sodium	**239**	25.8		µg/g-dry	1	6/14/2024 3:17:53 PM
Thallium	**ND**	0.516		µg/g-dry	1	6/14/2024 3:17:53 PM
Vanadium	**8.53**	2.58		µg/g-dry	1	6/14/2024 3:17:53 PM
Zinc	**26.9**	0.516		µg/g-dry	1	6/14/2024 3:17:53 PM
MERCURY - SW 7471B						Analyst: **AF**
(Prep: SW7471B - 6/14/2024)						
Mercury	**ND**	0.021		µg/g-dry	1	6/14/2024 10:56:56 AM
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **KL**
(Prep: SW3545A - 6/18/2024)						
Phenol	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Bis(2-chloroethyl)ether	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2-Chlorophenol	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
1,3-Dichlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
1,4-Dichlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
1,2-Dichlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2-Methylphenol	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2,2-Oxybis(1-chloropropane)	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
4-Methylphenol & 3-Methlyphenol	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
N-Nitrosodi-n-propylamine	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Hexachloroethane	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Nitrobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Isophorone	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2-Nitrophenol	**ND**	1700		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2,4-Dimethylphenol	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Bis(2-chloroethoxy)methane	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-6-20240613
Collection Date: 6/13/2024 11:50:00 AM
Lab Sample ID: 240613048-006
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **KL**
(Prep: SW3545A - 6/18/2024)						
2,4-Dichlorophenol	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
1,2,4-Trichlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Naphthalene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
4-Chloroaniline	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Hexachlorobutadiene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
4-Chloro-3-methylphenol	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2-Methylnaphthalene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Hexachlorocyclopentadiene	**ND**	340	S	µg/Kg-dry	1	6/26/2024 11:25:00 AM
2,4,6-Trichlorophenol	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2,4,5-Trichlorophenol	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2-Chloronaphthalene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2-Nitroaniline	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Dimethyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Acenaphthylene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2,6-Dinitrotoluene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
3-Nitroaniline	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Acenaphthene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2,4-Dinitrophenol	**ND**	1700	SN	µg/Kg-dry	1	6/26/2024 11:25:00 AM
4-Nitrophenol	**ND**	1700		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Dibenzofuran	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
2,4-Dinitrotoluene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Diethyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
4-Chlorophenyl phenyl ether	**ND**	350		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Fluorene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
4-Nitroaniline	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
4,6-Dinitro-2-methylphenol	**ND**	1700	SN	µg/Kg-dry	1	6/26/2024 11:25:00 AM
N-Nitrosodiphenylamine	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
4-Bromophenyl phenyl ether	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Hexachlorobenzene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Pentachlorophenol	**ND**	1700		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Phenanthrene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Anthracene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Carbazole	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Di-n-butyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Fluoranthene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Pyrene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Butyl benzyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
3,3´-Dichlorobenzidine	**ND**	1700		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Benz(a)anthracene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Chrysene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Bis(2-ethylhexyl)phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM

Adirondack Environmental Services, Inc

Date: *27-Jun-24*

CLIENT: National Grid
Work Order: **240613048**
Reference: Analysis of Samples / Railroad Ave Import
PO#: 6200005633

Client Sample ID: Import-6-20240613
Collection Date: 6/13/2024 11:50:00 AM
Lab Sample ID: 240613048-006
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **KL**
(Prep: SW3545A - 6/18/2024)						
Di-n-octyl phthalate	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Benzo(b)fluoranthene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Benzo(k)fluoranthene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Benzo(a)pyrene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Indeno(1,2,3-cd)pyrene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Dibenz(a,h)anthracene	**ND**	340		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Benzo(g,h,i)perylene	**ND**	360		µg/Kg-dry	1	6/26/2024 11:25:00 AM
Surr: 2,4,6-Tribromophenol	**51.6**	26.5-126		%REC	1	6/26/2024 11:25:00 AM
Surr: 2-Fluorobiphenyl	**62.6**	32-136		%REC	1	6/26/2024 11:25:00 AM
Surr: 2-Fluorophenol	**59.7**	30.3-104		%REC	1	6/26/2024 11:25:00 AM
Surr: 4-Terphenyl-d14	**56.7**	30.1-145		%REC	1	6/26/2024 11:25:00 AM
Surr: Nitrobenzene-d5	**68.4**	19.5-123		%REC	1	6/26/2024 11:25:00 AM
Surr: Phenol-d5	**80.9**	27-122		%REC	1	6/26/2024 11:25:00 AM
SEMI-VOLATILE ORGANICS - EPA 8270D SIM						Analyst: **10670**
6/24/2024)						
1,4-Dioxane	**ND**	3.1		µg/Kg-dry	1	6/26/2024 2:10:00 PM
CYANIDE, TOTAL - SW 9012B						Analyst: **GK**
(Prep: 9010C - 6/25/2024)						
Cyanide	**ND**	0.52		µg/g-dry	1	6/25/2024 3:01:38 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **KM**
Percent Moisture	**3.2**	0.1		wt%	1	6/18/2024

Technical Report

prepared for:

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany NY, 12207
Attention: Lisa Seypura

Report Date: 06/25/2024
Client Project ID: 240613048
York Project (SDG) No.: 24F1089

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 06/25/2024
Client Project ID: 240613048
York Project (SDG) No.: 24F1089

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany NY, 12207
Attention: Lisa Seypura

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 17, 2024 and listed below. The project was identified as your project: **240613048**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24F1089-01	240613048-005B	Soil	06/13/2024	06/17/2024
24F1089-02	240613048-006B	Soil	06/13/2024	06/17/2024
24F1089-03	240613048-007A	Water	06/13/2024	06/17/2024

General Notes for York Project (SDG) No.: 24F1089

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: Cassie L. Mosher

Cassie L. Mosher
Laboratory Manager

Date: 06/25/2024

Sample Information

Client Sample ID: **240613048-005B** **York Sample ID:** **24F1089-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Soil	June 13, 2024 11:40 am	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.112	0.179	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0535	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.106	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.181	0.185	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.174	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.169	0.188	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.191	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.193	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.200	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.165	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.126	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.104	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.150	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.196	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.110	0.404	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.148	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.157	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.193	0.195	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.601	0.768	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.763	0.776	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.110	0.808	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.140	0.360	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER

Sample Information

Client Sample ID: **240613048-005B** **York Sample ID:** **24F1089-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Soil	June 13, 2024 11:40 am	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.195	0.404	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0626	0.404	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.0970	0.404	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.159	0.190	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.601	0.758	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.614	0.808	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.314	0.764	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.249	0.756	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.176	0.764	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.171	0.196	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.125	0.194	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:35	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.641	1.01	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.12	5.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.52	5.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.617	2.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.182	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.704	2.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.200	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:35	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*96.0 %*	*25-150*
Surrogate: M5PFHxA	*85.6 %*	*25-150*
Surrogate: M4PFHpA	*73.9 %*	*25-150*
Surrogate: M3PFHxS	*82.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*78.4 %*	*25-150*
Surrogate: M6PFDA	*49.2 %*	*25-150*

Sample Information

Client Sample ID: **240613048-005B** **York Sample ID:** **24F1089-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Soil	June 13, 2024 11:40 am	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	*62.6 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*66.8 %*			*25-150*						
	Surrogate: M2PFTeDA	*75.4 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*6.23 %*	PFSu-L		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*52.3 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*68.7 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*85.7 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*53.9 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*73.4 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*67.2 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*54.4 %*			*25-200*						
	Surrogate: M9PFNA	*62.3 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*61.0 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*72.6 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*82.8 %*			*25-150*						
	Surrogate: M3HFPO-DA	*100 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*54.8 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*58.8 %*			*25-150*						

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**98.2**		%	0.100	1	SM 2540G	06/18/2024 12:00	06/19/2024 09:54	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **240613048-006B** **York Sample ID:** **24F1089-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Soil	June 13, 2024 11:50 am	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **240613048-006B** **York Sample ID:** **24F1089-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Soil	June 13, 2024 11:50 am	06/17/2024

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.116	0.185	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0553	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.110	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.187	0.191	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.179	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.174	0.194	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.197	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.199	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.170	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.130	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.107	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.154	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.202	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.114	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.152	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.162	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.199	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.621	0.793	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.788	0.801	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.114	0.835	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.145	0.371	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.201	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER

Sample Information

Client Sample ID: **240613048-006B** **York Sample ID:** **24F1089-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Soil	June 13, 2024 11:50 am	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0647	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.100	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.164	0.196	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.621	0.782	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.634	0.835	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.324	0.789	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.257	0.780	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.182	0.789	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.176	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.129	0.200	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/20/2024 19:22	06/24/2024 15:51	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.661	1.04	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.19	5.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.56	5.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.637	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.188	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.727	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/20/2024 19:22	06/24/2024 15:51	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*86.8 %*	*25-150*
Surrogate: M5PFHxA	*81.4 %*	*25-150*
Surrogate: M4PFHpA	*73.4 %*	*25-150*
Surrogate: M3PFHxS	*73.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*79.2 %*	*25-150*
Surrogate: M6PFDA	*48.8 %*	*25-150*
Surrogate: M7PFUdA	*53.6 %*	*25-150*

Sample Information

Client Sample ID: **240613048-006B** **York Sample ID:** **24F1089-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Soil	June 13, 2024 11:50 am	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*57.5 %*			*25-150*						
	Surrogate: M2PFTeDA	*78.6 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.15 %*	PFSu-L		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*46.3 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*70.7 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*75.6 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*54.0 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*59.7 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*69.8 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*57.3 %*			*25-200*						
	Surrogate: M9PFNA	*62.4 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*64.3 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*68.9 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*62.0 %*			*25-150*						
	Surrogate: M3HFPO-DA	*88.3 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*56.7 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*55.9 %*			*25-150*						

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.5**		%	0.100	1	SM 2540G	06/18/2024 12:00	06/19/2024 09:54	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **240613048-007A** **York Sample ID:** **24F1089-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Water	June 13, 2024 11:55 am	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: **240613048-007A** **York Sample ID:** **24F1089-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Water	June 13, 2024 11:55 am	06/17/2024

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.454	1.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.338	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.685	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.656	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.405	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.791	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.502	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.724	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.09	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.849	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.714	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.666	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
2355-31-9	N-MeFOSAA	ND		ng/L	0.762	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
2991-50-6	N-EtFOSAA	ND		ng/L	0.994	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.222	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.849	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.878	1.84	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.27	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.02	7.34	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.98	7.41	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.725**	J	ng/L	0.318	7.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.483	3.44	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	06/20/2024 12:54	06/22/2024 13:06	ER
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.07	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	06/20/2024 12:54	06/22/2024 13:06	ER

Sample Information

Client Sample ID: **240613048-007A** **York Sample ID:** **24F1089-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Water	June 13, 2024 11:55 am	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS -L	ng/L	0.241	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	06/20/2024 12:54	06/22/2024 13:06	ER
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.357	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	06/20/2024 12:54	06/22/2024 13:06	ER
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.734	1.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.73	7.24	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.12	7.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.33	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
756426-58-1	9CL-PF3ONS	ND		ng/L	0.676	7.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
919005-14-4	ADONA	ND		ng/L	0.512	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.898	1.87	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:06	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.830	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:06	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND	PF-LCS -L	ng/L	1.96	4.83	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:06	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.07	24.1	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:06	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.14	24.1	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:06	ER
24448-09-7	* N-MeFOSE	ND		ng/L	3.85	19.3	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:06	ER
31506-32-8	* N-MeFOSA	ND		ng/L	1.52	1.93	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:06	ER
1691-99-2	* N-EtFOSE	ND		ng/L	3.85	19.3	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:06	ER
4151-50-2	* N-EtFOSA	ND		ng/L	1.74	1.93	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:06	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*96.4 %*	*25-150*
Surrogate: M5PFHxA	*90.2 %*	*25-150*
Surrogate: M4PFHpA	*89.9 %*	*25-150*
Surrogate: M3PFHxS	*106 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*99.9 %*	*25-150*
Surrogate: M6PFDA	*114 %*	*25-150*
Surrogate: M7PFUdA	*91.1 %*	*25-150*

Sample Information

Client Sample ID: **240613048-007A** **York Sample ID:** **24F1089-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1089	240613048	Water	June 13, 2024 11:55 am	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*86.9 %*			*25-150*						
	Surrogate: M2PFTeDA	*58.1 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.63 %*	PFSu-L		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*97.3 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*39.7 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*86.3 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*80.3 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*84.6 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*88.7 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*74.2 %*			*25-200*						
	Surrogate: M9PFNA	*92.3 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*98.7 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*67.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*64.4 %*			*25-150*						
	Surrogate: M3HFPO-DA	*93.1 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*53.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*64.2 %*			*25-150*						

Analytical Batch Summary

Batch ID: BF41168 **Preparation Method:** % Solids Prep **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
24F1089-01	240613048-005B	06/18/24
24F1089-02	240613048-006B	06/18/24
BF41168-DUP1	Duplicate	06/18/24

Batch ID: BF41354 **Preparation Method:** EPA 1633 Prep **Prepared By:** DRF

YORK Sample ID	Client Sample ID	Preparation Date
24F1089-03	240613048-007A	06/20/24
BF41354-BLK1	Blank	06/20/24
BF41354-BS1	LCS	06/20/24
BF41354-BS2	LCS	06/20/24
BF41354-DUP1	Duplicate	06/20/24

Batch ID: BF41398 **Preparation Method:** EPA 1633 Prep **Prepared By:** DRF

YORK Sample ID	Client Sample ID	Preparation Date
24F1089-01	240613048-005B	06/20/24
24F1089-02	240613048-006B	06/20/24
BF41398-BLK1	Blank	06/20/24
BF41398-BS1	LCS	06/20/24
BF41398-BS2	LCS	06/20/24
BF41398-MS1	Matrix Spike	06/20/24
BF41398-MSD1	Matrix Spike Dup	06/20/24

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
Blank (BF41354-BLK1)									Prepared: 06/20/2024 Analyzed: 06/22/2024		
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*48.7*		*"*	*46.6*		*105*	*25-150*				
Surrogate: M5PFHxA	*49.7*		*"*	*50.0*		*99.5*	*25-150*				
Surrogate: M4PFHpA	*48.7*		*"*	*50.0*		*97.5*	*25-150*				
Surrogate: M3PFHxS	*50.7*		*"*	*47.4*		*107*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.7*		*"*	*50.0*		*113*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
Blank (BF41354-BLK1)								Prepared: 06/20/2024 Analyzed: 06/22/2024			
Surrogate: M6PFDA	*23.9*		*ng/L*	*25.0*		*95.6*	*25-150*				
Surrogate: M7PFUdA	*24.3*		*"*	*25.0*		*97.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*21.5*		*"*	*25.0*		*86.1*	*25-150*				
Surrogate: M2PFTeDA	*14.3*		*"*	*25.0*		*57.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.07*		*"*	*200*		*2.04*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*50.1*		*"*	*47.9*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*51.3*		*"*	*100*		*51.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*45.1*		*"*	*50.0*		*90.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*90.2*		*"*	*100*		*90.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*85.7*		*"*	*100*		*85.8*	*25-150*				
Surrogate: M2-6:2 FTS	*88.6*		*"*	*95.1*		*93.2*	*25-200*				
Surrogate: M2-8:2 FTS	*83.4*		*"*	*96.0*		*86.9*	*25-200*				
Surrogate: M9PFNA	*23.8*		*"*	*25.0*		*95.2*	*25-150*				
Surrogate: M2-4:2 FTS	*91.2*		*"*	*93.8*		*97.2*	*25-150*				
Surrogate: d-N-MeFOSA	*38.6*		*"*	*50.0*		*77.2*	*25-150*				
Surrogate: d-N-EtFOSA	*40.3*		*"*	*50.0*		*80.7*	*25-150*				
Surrogate: M3HFPO-DA	*205*		*"*	*200*		*103*	*25-150*				
Surrogate: d9-N-EtFOSE	*297*		*"*	*500*		*59.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*321*		*"*	*500*		*64.1*	*25-150*				
LCS (BF41354-BS1)								Prepared: 06/20/2024 Analyzed: 06/22/2024			
Perfluorobutanesulfonic acid (PFBS)	60.9	3.54	ng/L	70.8		86.0	50-150				
Perfluorohexanoic acid (PFHxA)	69.5	4.00	"	80.0		86.9	50-150				
Perfluoroheptanoic acid (PFHpA)	68.2	4.00	"	80.0		85.2	50-150				
Perfluorohexanesulfonic acid (PFHxS)	62.4	3.66	"	73.2		85.3	50-150				
Perfluorooctanoic acid (PFOA)	60.6	4.00	"	80.0		75.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	63.7	3.72	"	74.4		85.6	50-150				
Perfluorononanoic acid (PFNA)	65.3	4.00	"	80.0		81.7	50-150				
Perfluorodecanoic acid (PFDA)	66.4	4.00	"	80.0		83.0	50-150				
Perfluoroundecanoic acid (PFUnA)	80.5	4.00	"	80.0		101	50-150				
Perfluorododecanoic acid (PFDoA)	60.4	4.00	"	80.0		75.5	50-150				
Perfluorotridecanoic acid (PFTrDA)	78.9	4.00	"	80.0		98.6	50-150				
Perfluorotetradecanoic acid (PFTA)	67.4	4.00	"	80.0		84.2	50-150				
N-MeFOSAA	72.2	4.00	"	80.0		90.3	50-150				
N-EtFOSAA	73.5	4.00	"	80.0		91.9	50-150				
Perfluoropentanoic acid (PFPeA)	141	8.00	"	160		88.0	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	65.4	4.00	"	80.0		81.7	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	67.3	3.82	"	76.4		88.1	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	59.8	3.86	"	77.2		77.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	255	15.2	"	304		83.7	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	266	15.4	"	307		86.5	50-150				
Perfluoro-n-butanoic acid (PFBA)	214	16.0	"	320		66.8	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	129	7.12	"	142		90.6	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	135	8.00	"	160		84.5	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
LCS (BF41354-BS1)								Prepared: 06/20/2024 Analyzed: 06/22/2024			
Perfluoro-4-oxapentanoic acid (PFMPA)	20.4	8.00	ng/L	160		12.8	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	189	8.00	"	160		118	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	66.9	3.76	"	75.2		88.9	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	249	15.0	"	300		83.1	50-150				
HFPO-DA (Gen-X)	138	16.0	"	160		86.2	50-150				
11CL-PF3OUdS	118	15.1	"	151		78.3	50-150				
9CL-PF3ONS	119	15.0	"	150		79.7	50-150				
ADONA	128	15.1	"	151		84.5	50-150				
Perfluorododecanesulfonic acid (PFDoS)	54.8	3.88	"	77.6		70.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	65.5	3.84	"	76.8		85.3	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	152	10.0	"	320		47.5	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	1330	50.0	"	1600		83.1	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1340	50.0	"	1600		84.0	50-150				
N-MeFOSE	629	40.0	"	800		78.7	50-150				
N-MeFOSA	60.2	4.00	"	80.0		75.2	50-150				
N-EtFOSE	667	40.0	"	800		83.3	50-150				
N-EtFOSA	68.0	4.00	"	80.0		85.0	50-150				
Surrogate: M3PFBS	*47.0*		*"*	*46.6*		*101*	*25-150*				
Surrogate: M5PFHxA	*53.2*		*"*	*50.0*		*106*	*25-150*				
Surrogate: M4PFHpA	*55.1*		*"*	*50.0*		*110*	*25-150*				
Surrogate: M3PFHxS	*52.9*		*"*	*47.4*		*112*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*57.9*		*"*	*50.0*		*116*	*25-150*				
Surrogate: M6PFDA	*27.8*		*"*	*25.0*		*111*	*25-150*				
Surrogate: M7PFUdA	*24.1*		*"*	*25.0*		*96.3*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*23.6*		*"*	*25.0*		*94.5*	*25-150*				
Surrogate: M2PFTeDA	*18.9*		*"*	*25.0*		*75.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.84*		*"*	*200*		*2.42*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*51.1*		*"*	*47.9*		*107*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*59.7*		*"*	*100*		*59.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*46.1*		*"*	*50.0*		*92.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*93.7*		*"*	*100*		*93.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*85.7*		*"*	*100*		*85.7*	*25-150*				
Surrogate: M2-6:2 FTS	*93.8*		*"*	*95.1*		*98.7*	*25-200*				
Surrogate: M2-8:2 FTS	*87.2*		*"*	*96.0*		*90.9*	*25-200*				
Surrogate: M9PFNA	*27.2*		*"*	*25.0*		*109*	*25-150*				
Surrogate: M2-4:2 FTS	*95.6*		*"*	*93.8*		*102*	*25-150*				
Surrogate: d-N-MeFOSA	*43.0*		*"*	*50.0*		*86.0*	*25-150*				
Surrogate: d-N-EtFOSA	*40.7*		*"*	*50.0*		*81.4*	*25-150*				
Surrogate: M3HFPO-DA	*227*		*"*	*200*		*113*	*25-150*				
Surrogate: d9-N-EtFOSE	*321*		*"*	*500*		*64.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*366*		*"*	*500*		*73.1*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
LCS (BF41354-BS2)							Prepared: 06/20/2024 Analyzed: 06/22/2024				
Perfluorobutanesulfonic acid (PFBS)	12.0	3.54	ng/L	14.2		84.7	50-150				
Perfluorohexanoic acid (PFHxA)	12.1	4.00	"	16.0		75.6	50-150				
Perfluoroheptanoic acid (PFHpA)	12.4	4.00	"	16.0		77.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	12.6	3.66	"	14.6		86.2	50-150				
Perfluorooctanoic acid (PFOA)	13.0	4.00	"	16.0		81.5	50-150				
Perfluorooctanesulfonic acid (PFOS)	13.3	3.72	"	14.9		89.6	50-150				
Perfluorononanoic acid (PFNA)	12.5	4.00	"	16.0		78.4	50-150				
Perfluorodecanoic acid (PFDA)	11.8	4.00	"	16.0		73.9	50-150				
Perfluoroundecanoic acid (PFUnA)	13.8	4.00	"	16.0		86.2	50-150				
Perfluorododecanoic acid (PFDoA)	12.5	4.00	"	16.0		78.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	13.7	4.00	"	16.0		85.5	50-150				
Perfluorotetradecanoic acid (PFTA)	12.6	4.00	"	16.0		78.9	50-150				
N-MeFOSAA	15.7	4.00	"	16.0		98.0	50-150				
N-EtFOSAA	13.3	4.00	"	16.0		82.9	50-150				
Perfluoropentanoic acid (PFPeA)	26.7	8.00	"	32.0		83.6	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	12.6	4.00	"	16.0		78.6	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	12.9	3.82	"	15.3		84.6	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	13.3	3.86	"	15.4		86.2	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	51.4	15.2	"	60.8		84.6	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	54.1	15.4	"	61.4		88.1	50-150				
Perfluoro-n-butanoic acid (PFBA)	37.6	16.0	"	64.0		58.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	23.2	7.12	"	28.5		81.4	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	22.8	8.00	"	32.0		71.3	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	4.25	8.00	"	32.0		13.3	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	34.8	8.00	"	32.0		109	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	14.7	3.76	"	15.0		97.7	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	49.7	15.0	"	60.0		82.8	50-150				
HFPO-DA (Gen-X)	26.3	16.0	"	32.0		82.2	50-150				
11CL-PF3OUdS	22.9	15.1	"	30.2		75.9	50-150				
9CL-PF3ONS	23.1	15.0	"	29.9		77.3	50-150				
ADONA	25.7	15.1	"	30.2		84.8	50-150				
Perfluorododecanesulfonic acid (PFDoS)	9.98	3.88	"	15.5		64.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	13.0	3.84	"	15.4		84.9	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	34.1	10.0	"	64.0		53.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	241	50.0	"	320		75.4	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	249	50.0	"	320		77.7	50-150				
N-MeFOSE	126	40.0	"	160		78.5	50-150				
N-MeFOSA	10.1	4.00	"	16.0		63.0	50-150				
N-EtFOSE	130	40.0	"	160		81.2	50-150				
N-EtFOSA	11.9	4.00	"	16.0		74.4	50-150				
Surrogate: M3PFBS	*45.6*		*"*	*46.6*		*98.0*	*25-150*				
Surrogate: M5PFHxA	*51.2*		*"*	*50.0*		*102*	*25-150*				
Surrogate: M4PFHpA	*51.7*		*"*	*50.0*		*103*	*25-150*				
Surrogate: M3PFHxS	*49.3*		*"*	*47.4*		*104*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*52.5*		*"*	*50.0*		*105*	*25-150*				
Surrogate: M6PFDA	*28.6*		*"*	*25.0*		*114*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
LCS (BF41354-BS2)								Prepared: 06/20/2024 Analyzed: 06/22/2024			
Surrogate: M7PFUdA	*26.1*		*ng/L*	*25.0*		*104*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*24.8*		*"*	*25.0*		*99.2*	*25-150*				
Surrogate: M2PFTeDA	*22.0*		*"*	*25.0*		*88.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.12*		*"*	*200*		*2.56*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*51.8*		*"*	*47.9*		*108*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*53.4*		*"*	*100*		*53.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*44.6*		*"*	*50.0*		*89.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*85.6*		*"*	*100*		*85.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*91.8*		*"*	*100*		*91.8*	*25-150*				
Surrogate: M2-6:2 FTS	*82.3*		*"*	*95.1*		*86.5*	*25-200*				
Surrogate: M2-8:2 FTS	*78.0*		*"*	*96.0*		*81.3*	*25-200*				
Surrogate: M9PFNA	*26.6*		*"*	*25.0*		*106*	*25-150*				
Surrogate: M2-4:2 FTS	*87.7*		*"*	*93.8*		*93.5*	*25-150*				
Surrogate: d-N-MeFOSA	*44.3*		*"*	*50.0*		*88.7*	*25-150*				
Surrogate: d-N-EtFOSA	*38.8*		*"*	*50.0*		*77.5*	*25-150*				
Surrogate: M3HFPO-DA	*212*		*"*	*200*		*106*	*25-150*				
Surrogate: d9-N-EtFOSE	*365*		*"*	*500*		*73.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*379*		*"*	*500*		*75.9*	*25-150*				
Duplicate (BF41354-DUP1)	*Source sample: 24F1154-07 (Duplicate)							Prepared: 06/20/2024 Analyzed: 06/22/2024			
Perfluorobutanesulfonic acid (PFBS)	ND	1.52	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	1.71	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	1.71	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.57	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	1.71	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.59	"		ND					30	
Perfluorononanoic acid (PFNA)	ND	1.71	"		ND					30	
Perfluorodecanoic acid (PFDA)	ND	1.71	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	1.71	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	1.71	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	1.71	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	1.71	"		ND					30	
N-MeFOSAA	ND	1.71	"		ND					30	
N-EtFOSAA	ND	1.71	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	3.43	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.71	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.64	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.65	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	6.51	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	6.58	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	6.85	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.05	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.43	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.43	"		ND					30	

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
Duplicate (BF41354-DUP1)	*Source sample: 24F1154-07 (Duplicate)							Prepared: 06/20/2024 Analyzed: 06/22/2024			
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	3.43	ng/L		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.61	"		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	6.42	"		ND					30	
HFPO-DA (Gen-X)	ND	6.85	"		ND					30	
11CL-PF3OUdS	ND	6.48	"		ND					30	
9CL-PF3ONS	ND	6.41	"		ND					30	
ADONA	ND	6.48	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.66	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.64	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	4.28	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	21.4	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	21.4	"		ND					30	
N-MeFOSE	ND	17.1	"		ND					30	
N-MeFOSA	ND	1.71	"		ND					30	
N-EtFOSE	ND	17.1	"		ND					30	
N-EtFOSA	ND	1.71	"		ND					30	
Surrogate: M3PFBS	*18.4*		*"*	*20.0*		*92.2*	*25-150*				
Surrogate: M5PFHxA	*17.3*		*"*	*21.4*		*80.9*	*25-150*				
Surrogate: M4PFHpA	*16.1*		*"*	*21.4*		*75.3*	*25-150*				
Surrogate: M3PFHxS	*18.5*		*"*	*20.3*		*91.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*20.9*		*"*	*21.4*		*97.6*	*25-150*				
Surrogate: M6PFDA	*10.2*		*"*	*10.7*		*95.3*	*25-150*				
Surrogate: M7PFUdA	*9.69*		*"*	*10.7*		*90.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*7.52*		*"*	*10.7*		*70.2*	*25-150*				
Surrogate: M2PFTeDA	*5.38*		*"*	*10.7*		*50.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.59*		*"*	*85.7*		*3.03*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*18.1*		*"*	*20.5*		*88.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*17.7*		*"*	*42.8*		*41.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*17.9*		*"*	*21.4*		*83.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*33.2*		*"*	*42.8*		*77.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*35.8*		*"*	*42.8*		*83.7*	*25-150*				
Surrogate: M2-6:2 FTS	*31.2*		*"*	*40.7*		*76.7*	*25-200*				
Surrogate: M2-8:2 FTS	*29.9*		*"*	*41.1*		*72.8*	*25-200*				
Surrogate: M9PFNA	*9.55*		*"*	*10.7*		*89.2*	*25-150*				
Surrogate: M2-4:2 FTS	*32.7*		*"*	*40.2*		*81.4*	*25-150*				
Surrogate: d-N-MeFOSA	*12.0*		*"*	*21.4*		*56.1*	*25-150*				
Surrogate: d-N-EtFOSA	*13.8*		*"*	*21.4*		*64.3*	*25-150*				
Surrogate: M3HFPO-DA	*73.1*		*"*	*85.7*		*85.3*	*25-150*				
Surrogate: d9-N-EtFOSE	*133*		*"*	*214*		*62.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*149*		*"*	*214*		*69.6*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41398 - EPA 1633 Prep											
Blank (BF41398-BLK1)									Prepared: 06/20/2024 Analyzed: 06/24/2024		
Perfluorobutanesulfonic acid (PFBS)	ND	0.176	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.199	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.199	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.182	"								
Perfluorooctanoic acid (PFOA)	ND	0.199	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.185	"								
Perfluorononanoic acid (PFNA)	ND	0.199	"								
Perfluorodecanoic acid (PFDA)	ND	0.199	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.199	"								
Perfluorododecanoic acid (PFDoA)	ND	0.199	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.199	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.199	"								
N-MeFOSAA	ND	0.199	"								
N-EtFOSAA	ND	0.199	"								
Perfluoropentanoic acid (PFPeA)	ND	0.398	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.199	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.199	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.192	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.757	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.765	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.797	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.355	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.398	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.398	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.398	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.187	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.747	"								
HFPO-DA (Gen-X)	ND	0.797	"								
11CL-PF3OUdS	ND	0.753	"								
9CL-PF3ONS	ND	0.745	"								
ADONA	ND	0.753	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.193	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.191	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.996	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.98	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.98	"								
N-MeFOSE	ND	1.99	"								
N-MeFOSA	ND	0.199	"								
N-EtFOSE	ND	1.99	"								
N-EtFOSA	ND	0.199	"								
Surrogate: M3PFBS	*1.89*		*"*	*2.32*		*81.4*	*25-150*				
Surrogate: M5PFHxA	*1.42*		*"*	*2.49*		*57.1*	*25-150*				
Surrogate: M4PFHpA	*1.41*		*"*	*2.49*		*56.7*	*25-150*				
Surrogate: M3PFHxS	*1.87*		*"*	*2.36*		*79.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.01*		*"*	*2.49*		*80.6*	*25-150*				
Surrogate: M6PFDA	*0.670*		*"*	*1.25*		*53.8*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41398 - EPA 1633 Prep											
Blank (BF41398-BLK1)								Prepared: 06/20/2024 Analyzed: 06/24/2024			
Surrogate: M7PFUdA	*0.914*		*ug/kg wet*	*1.25*		*73.4*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.837*		*"*	*1.25*		*67.2*	*25-150*				
Surrogate: M2PFTeDA	*0.868*		*"*	*1.25*		*69.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*7.69*		*"*	*9.96*		*77.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.48*		*"*	*2.39*		*61.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.07*		*"*	*4.98*		*61.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.03*		*"*	*2.49*		*81.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.00*		*"*	*4.98*		*80.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.16*		*"*	*4.98*		*83.6*	*25-150*				
Surrogate: M2-6:2 FTS	*3.05*		*"*	*4.74*		*64.5*	*25-200*				
Surrogate: M2-8:2 FTS	*3.47*		*"*	*4.78*		*72.5*	*25-200*				
Surrogate: M9PFNA	*0.940*		*"*	*1.25*		*75.5*	*25-150*				
Surrogate: M2-4:2 FTS	*2.70*		*"*	*4.67*		*57.7*	*25-150*				
Surrogate: d-N-MeFOSA	*1.57*		*"*	*2.49*		*63.0*	*25-150*				
Surrogate: d-N-EtFOSA	*1.90*		*"*	*2.49*		*76.5*	*25-150*				
Surrogate: M3HFPO-DA	*6.54*		*"*	*9.96*		*65.7*	*25-150*				
Surrogate: d9-N-EtFOSE	*13.6*		*"*	*24.9*		*54.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*15.8*		*"*	*24.9*		*63.3*	*25-150*				
LCS (BF41398-BS1)								Prepared: 06/20/2024 Analyzed: 06/24/2024			
Perfluorobutanesulfonic acid (PFBS)	3.53	0.177	ug/kg wet	3.53		99.8	50-150				
Perfluorohexanoic acid (PFHxA)	4.12	0.200	"	3.99		103	50-150				
Perfluoroheptanoic acid (PFHpA)	4.19	0.200	"	3.99		105	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.76	0.183	"	3.65		103	50-150				
Perfluorooctanoic acid (PFOA)	3.74	0.200	"	3.99		93.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.80	0.186	"	3.71		102	50-150				
Perfluorononanoic acid (PFNA)	3.76	0.200	"	3.99		94.1	50-150				
Perfluorodecanoic acid (PFDA)	4.20	0.200	"	3.99		105	50-150				
Perfluoroundecanoic acid (PFUnA)	4.76	0.200	"	3.99		119	50-150				
Perfluorododecanoic acid (PFDoA)	3.73	0.200	"	3.99		93.5	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.09	0.200	"	3.99		102	50-150				
Perfluorotetradecanoic acid (PFTA)	4.23	0.200	"	3.99		106	50-150				
N-MeFOSAA	3.69	0.200	"	3.99		92.3	50-150				
N-EtFOSAA	4.03	0.200	"	3.99		101	50-150				
Perfluoropentanoic acid (PFPeA)	8.09	0.399	"	7.98		101	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.04	0.200	"	3.99		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.23	0.200	"	3.81		111	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.57	0.193	"	3.85		92.6	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	16.3	0.758	"	15.2		108	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	13.4	0.766	"	15.3		87.6	50-150				
Perfluoro-n-butanoic acid (PFBA)	16.2	0.798	"	16.0		101	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.17	0.355	"	7.11		101	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.21	0.399	"	7.98		103	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	9.68	0.399	"	7.98		121	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41398 - EPA 1633 Prep											
LCS (BF41398-BS1)							Prepared: 06/20/2024 Analyzed: 06/24/2024				
Perfluoro-5-oxahexanoic acid (PFMBA)	7.98	0.399	ug/kg wet	7.98		99.9	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.21	0.188	"	3.75		112	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.8	0.749	"	15.0		99.1	50-150				
HFPO-DA (Gen-X)	8.07	0.798	"	7.98		101	50-150				
11CL-PF3OUdS	4.79	0.754	"	7.54		63.4	50-150				
9CL-PF3ONS	5.33	0.747	"	7.47		71.4	50-150				
ADONA	6.15	0.754	"	7.54		81.6	50-150				
Perfluorododecanesulfonic acid (PFDoS)	3.20	0.194	"	3.87		82.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.54	0.192	"	3.83		119	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	21.4	0.998	"	16.0		134	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	85.8	4.99	"	79.8		107	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	61.2	4.99	"	79.8		76.7	50-150				
N-MeFOSE	34.8	2.00	"	39.9		87.2	50-150				
N-MeFOSA	4.21	0.200	"	3.99		105	50-150				
N-EtFOSE	37.9	2.00	"	39.9		95.0	50-150				
N-EtFOSA	4.68	0.200	"	3.99		117	50-150				
Surrogate: M3PFBS	*2.40*		*"*	*2.33*		*103*	*25-150*				
Surrogate: M5PFHxA	*1.96*		*"*	*2.50*		*78.4*	*25-150*				
Surrogate: M4PFHpA	*1.80*		*"*	*2.50*		*72.0*	*25-150*				
Surrogate: M3PFHxS	*2.24*		*"*	*2.37*		*94.8*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.30*		*"*	*2.50*		*92.3*	*25-150*				
Surrogate: M6PFDA	*0.838*		*"*	*1.25*		*67.2*	*25-150*				
Surrogate: M7PFUdA	*0.978*		*"*	*1.25*		*78.4*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.993*		*"*	*1.25*		*79.6*	*25-150*				
Surrogate: M2PFTeDA	*0.957*		*"*	*1.25*		*76.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.05*		*"*	*9.98*		*90.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.49*		*"*	*2.39*		*62.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.46*		*"*	*4.99*		*89.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.22*		*"*	*2.50*		*88.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.33*		*"*	*4.99*		*86.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.86*		*"*	*4.99*		*77.3*	*25-150*				
Surrogate: M2-6:2 FTS	*3.83*		*"*	*4.75*		*80.8*	*25-200*				
Surrogate: M2-8:2 FTS	*4.17*		*"*	*4.79*		*87.0*	*25-200*				
Surrogate: M9PFNA	*1.05*		*"*	*1.25*		*84.1*	*25-150*				
Surrogate: M2-4:2 FTS	*3.68*		*"*	*4.68*		*78.6*	*25-150*				
Surrogate: d-N-MeFOSA	*1.58*		*"*	*2.50*		*63.4*	*25-150*				
Surrogate: d-N-EtFOSA	*1.54*		*"*	*2.50*		*61.8*	*25-150*				
Surrogate: M3HFPO-DA	*9.17*		*"*	*9.98*		*91.9*	*25-150*				
Surrogate: d9-N-EtFOSE	*13.2*		*"*	*25.0*		*52.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.2*		*"*	*25.0*		*57.0*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41398 - EPA 1633 Prep											
LCS (BF41398-BS2)							Prepared: 06/20/2024 Analyzed: 06/24/2024				
Perfluorobutanesulfonic acid (PFBS)	0.661	0.176	ug/kg wet	0.704		93.9	50-150				
Perfluorohexanoic acid (PFHxA)	0.740	0.199	"	0.795		93.0	50-150				
Perfluoroheptanoic acid (PFHpA)	0.729	0.199	"	0.795		91.6	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.706	0.182	"	0.728		97.0	50-150				
Perfluorooctanoic acid (PFOA)	0.653	0.199	"	0.795		82.2	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.673	0.185	"	0.740		91.1	50-150				
Perfluorononanoic acid (PFNA)	0.771	0.199	"	0.795		96.9	50-150				
Perfluorodecanoic acid (PFDA)	0.799	0.199	"	0.795		100	50-150				
Perfluoroundecanoic acid (PFUnA)	0.768	0.199	"	0.795		96.6	50-150				
Perfluorododecanoic acid (PFDoA)	0.964	0.199	"	0.795		121	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.909	0.199	"	0.795		114	50-150				
Perfluorotetradecanoic acid (PFTA)	0.953	0.199	"	0.795		120	50-150				
N-MeFOSAA	0.763	0.199	"	0.795		96.0	50-150				
N-EtFOSAA	0.752	0.199	"	0.795		94.6	50-150				
Perfluoropentanoic acid (PFPeA)	1.55	0.398	"	1.59		97.6	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.783	0.199	"	0.795		98.4	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.750	0.199	"	0.759		98.7	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.665	0.192	"	0.767		86.6	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.09	0.755	"	3.02		102	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.21	0.763	"	3.05		105	50-150				
Perfluoro-n-butanoic acid (PFBA)	3.02	0.795	"	3.18		95.1	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.27	0.354	"	1.42		90.1	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.43	0.398	"	1.59		89.9	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.77	0.398	"	1.59		112	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	1.47	0.398	"	1.59		92.5	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.862	0.187	"	0.748		115	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.88	0.746	"	2.98		96.4	50-150				
HFPO-DA (Gen-X)	1.31	0.795	"	1.59		82.2	50-150				
11CL-PF3OUdS	1.02	0.751	"	1.50		67.7	50-150				
9CL-PF3ONS	1.06	0.744	"	1.49		71.3	50-150				
ADONA	1.25	0.751	"	1.50		82.9	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.718	0.193	"	0.771		93.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.770	0.191	"	0.763		101	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	3.61	0.994	"	3.18		113	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	15.1	4.97	"	15.9		95.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	11.2	4.97	"	15.9		70.7	50-150				
N-MeFOSE	8.54	1.99	"	7.95		107	50-150				
N-MeFOSA	1.04	0.199	"	0.795		131	50-150				
N-EtFOSE	9.05	1.99	"	7.95		114	50-150				
N-EtFOSA	0.825	0.199	"	0.795		104	50-150				
Surrogate: M3PFBS	*2.41*		*"*	*2.32*		*104*	*25-150*				
Surrogate: M5PFHxA	*2.28*		*"*	*2.49*		*91.6*	*25-150*				
Surrogate: M4PFHpA	*2.10*		*"*	*2.49*		*84.5*	*25-150*				
Surrogate: M3PFHxS	*2.19*		*"*	*2.36*		*93.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.33*		*"*	*2.49*		*93.8*	*25-150*				
Surrogate: M6PFDA	*0.778*		*"*	*1.24*		*62.6*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41398 - EPA 1633 Prep											
LCS (BF41398-BS2)								Prepared: 06/20/2024 Analyzed: 06/24/2024			
Surrogate: M7PFUdA	*0.962*		*ug/kg wet*	*1.24*		*77.4*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.801*		*"*	*1.24*		*64.5*	*25-150*				
Surrogate: M2PFTeDA	*0.879*		*"*	*1.24*		*70.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.01*		*"*	*9.94*		*90.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.54*		*"*	*2.38*		*64.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.10*		*"*	*4.97*		*103*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.26*		*"*	*2.49*		*90.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.53*		*"*	*4.97*		*71.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.70*		*"*	*4.97*		*74.5*	*25-150*				
Surrogate: M2-6:2 FTS	*3.54*		*"*	*4.73*		*74.9*	*25-200*				
Surrogate: M2-8:2 FTS	*3.48*		*"*	*4.77*		*73.0*	*25-200*				
Surrogate: M9PFNA	*0.861*		*"*	*1.24*		*69.3*	*25-150*				
Surrogate: M2-4:2 FTS	*3.43*		*"*	*4.66*		*73.5*	*25-150*				
Surrogate: d-N-MeFOSA	*1.52*		*"*	*2.49*		*61.3*	*25-150*				
Surrogate: d-N-EtFOSA	*1.90*		*"*	*2.49*		*76.4*	*25-150*				
Surrogate: M3HFPO-DA	*9.35*		*"*	*9.94*		*94.0*	*25-150*				
Surrogate: d9-N-EtFOSE	*13.1*		*"*	*24.9*		*52.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*12.7*		*"*	*24.9*		*51.0*	*25-150*				
Matrix Spike (BF41398-MS1)	*Source sample: 24F1276-01 (Matrix Spike)							Prepared: 06/20/2024 Analyzed: 06/24/2024			
Perfluorobutanesulfonic acid (PFBS)	4.41	0.221	ug/kg dry	4.41	ND	99.9	25-150				
Perfluorohexanoic acid (PFHxA)	4.98	0.249	"	4.99	ND	99.8	25-150				
Perfluoroheptanoic acid (PFHpA)	4.91	0.249	"	4.99	ND	98.5	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.91	0.228	"	4.56	ND	108	25-150				
Perfluorooctanoic acid (PFOA)	5.01	0.249	"	4.99	ND	100	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.61	0.232	"	4.64	ND	99.5	25-150				
Perfluorononanoic acid (PFNA)	4.86	0.249	"	4.99	ND	97.4	25-150				
Perfluorodecanoic acid (PFDA)	5.16	0.249	"	4.99	ND	103	25-150				
Perfluoroundecanoic acid (PFUnA)	4.81	0.249	"	4.99	ND	96.4	25-150				
Perfluorododecanoic acid (PFDoA)	4.84	0.249	"	4.99	ND	97.1	25-150				
Perfluorotridecanoic acid (PFTrDA)	5.00	0.249	"	4.99	ND	100	25-150				
Perfluorotetradecanoic acid (PFTA)	5.35	0.249	"	4.99	ND	107	25-150				
N-MeFOSAA	5.05	0.249	"	4.99	ND	101	25-150				
N-EtFOSAA	4.77	0.249	"	4.99	ND	95.8	25-150				
Perfluoropentanoic acid (PFPeA)	9.97	0.499	"	9.97	ND	100	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.91	0.249	"	4.99	ND	119	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.34	0.249	"	4.76	ND	91.2	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	5.78	0.241	"	4.81	ND	120	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	21.0	0.947	"	18.9	ND	111	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	18.4	0.957	"	19.1	ND	96.1	25-150				
Perfluoro-n-butanoic acid (PFBA)	20.0	0.997	"	19.9	ND	100	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.88	0.444	"	8.87	ND	100	25-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	11.4	0.499	"	9.97	ND	114	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	11.7	0.499	"	9.97	ND	117	25-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41398 - EPA 1633 Prep											
Matrix Spike (BF41398-MS1)	*Source sample: 24F1276-01 (Matrix Spike)						Prepared: 06/20/2024 Analyzed: 06/24/2024				
Perfluoro-5-oxahexanoic acid (PFMBA)	9.84	0.499	ug/kg dry	9.97	ND	98.6	25-150				
Perfluoro-1-pentanesulfonate (PFPeS)	5.45	0.234	"	4.69	ND	116	25-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	21.2	0.935	"	18.7	ND	114	25-150				
HFPO-DA (Gen-X)	8.96	0.997	"	9.97	ND	89.8	25-150				
11CL-PF3OUdS	10.9	0.942	"	9.42	ND	115	25-150				
9CL-PF3ONS	9.68	0.932	"	9.32	ND	104	25-150				
ADONA	9.02	0.942	"	9.42	ND	95.7	25-150				
Perfluorododecanesulfonic acid (PFDoS)	4.16	0.242	"	4.84	ND	86.0	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	5.95	0.239	"	4.79	ND	124	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	20.3	1.25	"	19.9	ND	102	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	88.5	6.23	"	99.7	ND	88.8	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	67.8	6.23	"	99.7	ND	68.0	25-150				
N-MeFOSE	43.2	2.49	"	49.9	ND	86.7	25-150				
N-MeFOSA	4.76	0.249	"	4.99	ND	95.5	25-150				
N-EtFOSE	44.7	2.49	"	49.9	ND	89.6	25-150				
N-EtFOSA	4.71	0.249	"	4.99	ND	94.5	25-150				
Surrogate: M3PFBS	*2.89*		*"*	*2.90*		*99.5*	*25-150*				
Surrogate: M5PFHxA	*2.61*		*"*	*3.12*		*83.6*	*25-150*				
Surrogate: M4PFHpA	*2.15*		*"*	*3.12*		*69.0*	*25-150*				
Surrogate: M3PFHxS	*2.81*		*"*	*2.95*		*95.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.00*		*"*	*3.12*		*96.4*	*25-150*				
Surrogate: M6PFDA	*1.24*		*"*	*1.56*		*79.5*	*25-150*				
Surrogate: M7PFUdA	*1.67*		*"*	*1.56*		*107*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.69*		*"*	*1.56*		*109*	*25-150*				
Surrogate: M2PFTeDA	*1.59*		*"*	*1.56*		*102*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*11.1*		*"*	*12.5*		*89.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.59*		*"*	*2.98*		*86.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.72*		*"*	*6.23*		*91.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.39*		*"*	*3.12*		*109*	*10-150*				
Surrogate: d3-N-MeFOSAA	*6.51*		*"*	*6.23*		*104*	*25-150*				
Surrogate: d5-N-EtFOSAA	*7.83*		*"*	*6.23*		*126*	*25-150*				
Surrogate: M2-6:2 FTS	*4.62*		*"*	*5.93*		*77.9*	*25-200*				
Surrogate: M2-8:2 FTS	*5.93*		*"*	*5.98*		*99.2*	*25-200*				
Surrogate: M9PFNA	*1.32*		*"*	*1.56*		*84.5*	*25-150*				
Surrogate: M2-4:2 FTS	*5.10*		*"*	*5.85*		*87.3*	*25-150*				
Surrogate: d-N-MeFOSA	*3.07*		*"*	*3.12*		*98.4*	*25-150*				
Surrogate: d-N-EtFOSA	*3.64*		*"*	*3.12*		*117*	*25-150*				
Surrogate: M3HFPO-DA	*10.9*		*"*	*12.5*		*87.5*	*25-150*				
Surrogate: d9-N-EtFOSE	*30.9*		*"*	*31.2*		*99.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*27.9*		*"*	*31.2*		*89.5*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41398 - EPA 1633 Prep											
Matrix Spike Dup (BF41398-MSD1)	*Source sample: 24F1276-01 (Matrix Spike Dup)							Prepared: 06/20/2024 Analyzed: 06/24/2024			
Perfluorobutanesulfonic acid (PFBS)	4.47	0.224	ug/kg dry	4.47	ND	99.9	25-150		1.40	35	
Perfluorohexanoic acid (PFHxA)	4.90	0.253	"	5.05	ND	96.9	25-150		1.55	35	
Perfluoroheptanoic acid (PFHpA)	5.05	0.253	"	5.05	ND	99.8	25-150		2.71	35	
Perfluorohexanesulfonic acid (PFHxS)	4.54	0.231	"	4.63	ND	98.1	25-150		7.82	35	
Perfluorooctanoic acid (PFOA)	4.69	0.253	"	5.05	ND	92.7	25-150		6.57	35	
Perfluorooctanesulfonic acid (PFOS)	4.40	0.235	"	4.70	ND	93.6	25-150		4.73	35	
Perfluorononanoic acid (PFNA)	4.26	0.253	"	5.05	ND	84.2	25-150		13.1	35	
Perfluorodecanoic acid (PFDA)	4.65	0.253	"	5.05	ND	91.9	25-150		10.4	35	
Perfluoroundecanoic acid (PFUnA)	5.44	0.253	"	5.05	ND	108	25-150		12.3	35	
Perfluorododecanoic acid (PFDoA)	4.60	0.253	"	5.05	ND	91.1	25-150		5.03	35	
Perfluorotridecanoic acid (PFTrDA)	5.49	0.253	"	5.05	ND	109	25-150		9.28	35	
Perfluorotetradecanoic acid (PFTA)	5.34	0.253	"	5.05	ND	106	25-150		0.253	35	
N-MeFOSAA	4.95	0.253	"	5.05	ND	97.9	25-150		2.02	35	
N-EtFOSAA	4.51	0.253	"	5.05	ND	89.2	25-150		5.70	35	
Perfluoropentanoic acid (PFPeA)	9.83	0.505	"	10.1	ND	97.3	25-150		1.40	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.38	0.253	"	5.05	ND	106	25-150		9.46	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.30	0.253	"	4.83	ND	89.1	25-150		0.974	35	
Perfluoro-1-decanesulfonic acid (PFDS)	5.48	0.244	"	4.88	ND	112	25-150		5.33	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	19.3	0.960	"	19.2	ND	101	25-150		8.18	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	17.5	0.971	"	19.4	ND	90.1	25-150		5.09	35	
Perfluoro-n-butanoic acid (PFBA)	19.1	1.01	"	20.2	ND	94.2	25-150		4.70	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.33	0.450	"	9.00	ND	92.5	25-150		6.43	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	10.8	0.505	"	10.1	ND	107	25-150		5.23	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	9.23	0.505	"	10.1	ND	91.3	25-150		23.6	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	9.70	0.505	"	10.1	ND	96.0	25-150		1.33	30	
Perfluoro-1-pentanesulfonate (PFPeS)	4.88	0.238	"	4.75	ND	103	25-150		11.1	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	21.0	0.948	"	19.0	ND	111	25-150		1.12	30	
HFPO-DA (Gen-X)	9.10	1.01	"	10.1	ND	90.0	25-150		1.63	30	
11CL-PF3OUdS	10.1	0.955	"	9.55	ND	106	25-150		7.11	30	
9CL-PF3ONS	8.81	0.945	"	9.45	ND	93.2	25-150		9.46	30	
ADONA	8.20	0.955	"	9.55	ND	85.8	25-150		9.49	30	
Perfluorododecanesulfonic acid (PFDoS)	4.32	0.245	"	4.90	ND	88.1	25-150		3.83	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	6.07	0.243	"	4.85	ND	125	25-150		1.97	30	
3-Perfluoropropyl propanoic acid (FPrPA)	17.7	1.26	"	20.2	ND	87.7	25-150		13.3	30	
3-Perfluoropentyl propanoic acid (FPePA)	85.1	6.32	"	101	ND	84.2	25-150		3.98	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	67.8	6.32	"	101	ND	67.0	25-150		0.0497	30	
N-MeFOSE	41.8	2.53	"	50.5	ND	82.6	25-150		3.46	30	
N-MeFOSA	5.09	0.253	"	5.05	ND	101	25-150		6.71	30	
N-EtFOSE	46.7	2.53	"	50.5	ND	92.3	25-150		4.36	30	
N-EtFOSA	4.32	0.253	"	5.05	ND	85.5	25-150		8.60	30	
Surrogate: M3PFBS	*2.64*		*"*	*2.94*		*89.6*	*25-150*				
Surrogate: M5PFHxA	*2.78*		*"*	*3.16*		*87.9*	*25-150*				
Surrogate: M4PFHpA	*2.36*		*"*	*3.16*		*74.7*	*25-150*				
Surrogate: M3PFHxS	*2.83*		*"*	*3.00*		*94.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.21*		*"*	*3.16*		*102*	*25-150*				
Surrogate: M6PFDA	*1.47*		*"*	*1.58*		*92.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BF41398 - EPA 1633 Prep

Matrix Spike Dup (BF41398-MSD1) *Source sample: 24F1276-01 (Matrix Spike Dup) Prepared: 06/20/2024 Analyzed: 06/24/2024

Surrogate: M7PFUdA	*1.82*		*ug/kg dry*	*1.58*		*115*	*25-150*		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.01*		*"*	*1.58*		*127*	*25-150*		
Surrogate: M2PFTeDA	*1.71*		*"*	*1.58*		*108*	*10-150*		
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*8.09*		*"*	*12.6*		*64.0*	*25-150*		
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.63*		*"*	*3.03*		*86.7*	*25-150*		
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.85*		*"*	*6.32*		*92.6*	*25-150*		
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.68*		*"*	*3.16*		*117*	*10-150*		
Surrogate: d3-N-MeFOSAA	*6.54*		*"*	*6.32*		*104*	*25-150*		
Surrogate: d5-N-EtFOSAA	*8.06*		*"*	*6.32*		*128*	*25-150*		
Surrogate: M2-6:2 FTS	*4.90*		*"*	*6.01*		*81.5*	*25-200*		
Surrogate: M2-8:2 FTS	*5.58*		*"*	*6.07*		*92.0*	*25-200*		
Surrogate: M9PFNA	*1.37*		*"*	*1.58*		*86.9*	*25-150*		
Surrogate: M2-4:2 FTS	*4.76*		*"*	*5.93*		*80.4*	*25-150*		
Surrogate: d-N-MeFOSA	*2.57*		*"*	*3.16*		*81.3*	*25-150*		
Surrogate: d-N-EtFOSA	*3.17*		*"*	*3.16*		*100*	*25-150*		
Surrogate: M3HFPO-DA	*11.8*		*"*	*12.6*		*93.1*	*25-150*		
Surrogate: d9-N-EtFOSE	*30.0*		*"*	*31.6*		*94.9*	*25-150*		
Surrogate: d7-N-MeFOSE	*27.9*		*"*	*31.6*		*88.4*	*25-150*		

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41168 - % Solids Prep											
Duplicate (BF41168-DUP1)	*Source sample: 24F1098-07 (Duplicate)								Prepared: 06/18/2024 Analyzed: 06/19/2024		
% Solids	93.9	0.100	%		92.4				1.71	20	

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

24F1089

240613048

240613048

Adirondack Environmental Service
314 N. Pearl St.
Albany, NY 12207
(518) 434-4546

CHAIN-OF-CUSTODY RECORD

Acct #:

6/13/2024

Subcontractor:

York Analytical Laboratories, Inc.

132-02 89th Avenue
Suite 217
Richmond Hill, NY 11418

TEL:

Invoice to: Accounts Receivable
314 No Pearl St
Albany, NY 12207

OR: ARAES@adkenv.com

(All invoices MUST have PO)

Purchase Order : 240613048

AES ID	ClientID	Matrix	Collection Date	No. of Btls	Air Vol (Liters)	Requested Tests: EPA 1633S	EPA 1633W				
240613048-005B	Import-5-20240613	Soil	6/13/2024 11:40:00 AM	1	0	1					
240613048-006B	Import-6-20240613	Soil	6/13/2024 11:50:00 AM	1	0	1					
240613048-007A	PFAS-FB	Field Blank	6/13/2024 11:55:00 AM	1	0		1				

Comments: Results needed by 6/27/24

Sampled in New York State.

*** Please e-mail results when they are ready.*** E-mail: SubReports@adirondackenvironmental.com

		Date/Time			Date/Time
Relinquished by:	Samuel Cumy	6/13/24 14:50	Received by:	Chris C	6-17-24 1500
Relinquished by:	Chris C	6-17-24 1500	Received by:	NCCf	6-17-24 1500 3.6°C

Adirondack Environmental Services Inc.
314 North Pearl Street
Albany, NY 12207
518-434-4546 / FAX: 518-434-0891

EXPERIENCE IS THE SOLUTION

CHAIN OF CUSTODY RECORD

AES Work Order#: 240613048

COC Reference:

A full service analytical research laboratory offering solutions to environmental concerns

Client Name:	Address:	
National Grid	1125 Broadway Albany NY 12204	
Send Report to: Matt Root + CC Listing Rock Railroad Ave Import	Project Name (Location):	Samplers Name: Brian Taylor
Client Phone #: 518-227-7508	Client PO #: 620000563 3	Samplers Signature:
Client Email:		

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=am P=pm	Sample Type Matrix	C	G	# of Cont's	Preservative	Analysis
001	Import-1-20240613	6/13/24	1125 A P	Soil		X	1		VOCs TCL 8260
002	Import-2-20240613	6/13/24	1128 A P	Soil		X	1		VOCs TCL 8260
003	Import-3-20240613	6/13/24	1130 A P	Soil		X	1		VOCs TCL 8260
004	Import-4-20240613	6/13/24	1132 A P	Soil		X	1		VOCs TCL 8260
005	Import-5-20240613	6/13/24	1140 A P	Soil	X		3		1,4 Dioxane 8270 PFAS 1633 Pesticides 8081
			A P						TCL SVOCs 8270 TAL Metals PCB, Herbicides Cyanide
006	Import-6-20240613	6/13/24	1150 A P	Soil	X		3		1,4 Dioxane 8270 PFAS 1633 Pesticides 8081
			A P						TCL SVOCs 8270 TAL Metals PCB, Herbicides Cyanide
007	PFAS-EB	6/13/24	1155 A P	WATER			1		PFAS 1633
			A P						
			A P						
			A P						
			A P						
			A P						
			A P						

6/13/24

Shipment Arrived Via:
FedEx UPS Client AES Other:_____

Turnaround Time Requested:
1 Day 2 Day 3 Day 5 Day Standard

NOTE: Samples received after 3:30pm are considered next business day.

Special Instructions/Remarks:
2 WEEK TAT on PFAS and 1,4 Dioxane
Report PCBs to 1 ppm
CC Report to - Brian.Taylor@nationalgrid.com

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received for Laboratory by:	Date 6/13/24	Time 1:53

Sample Temperature
Ambient ~ Chilled ~ Chilling Begun
Notes:

Custody Seal Intact: Y / N

Bottles AES: Y / N

Properly Preserved: Y / N
0=None
1=H_2SO_4 pH<2
2=HNO_3 pH<2
3=HCl pH<2
4=$Na_2S_2O_3$
5=NH_4Cl
6=Ascorbic Acid
7=FAS
8=ZnAc/NaOH pH>9
9=NaOH pH>10
10=Other_____

Received Within Holding Times: Y / N
Notes:

Demo
240613048

2406013048

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National Grid – Pre-Screening of PCB Samples
Phase(s) Present

Multiphase? Y / N

☐ Water ☐ Oil ☑ Solid

AES Sample #: _____ _____ 001-006

Multiphase? Y / N

☐ Water ☐ Oil ☐ Solid

AES Sample #: _____ _____ _____

Multiphase? Y / N

☐ Water ☐ Oil ☐ Solid

AES Sample #: _____ _____ _____

Multiphase? Y / N

☐ Water ☐ Oil ☐ Solid

AES Sample #: _____ _____ _____

Pre-Screen Completed by: JL

Date: 6/13/24

Adirondack Environmental Services Inc.®
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.,** nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.,** its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

(g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.