GALLAGHER BASSETT | TECHNICAL SERVICES

May 29, 2025

Caroline Jalanti
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7014 via email: caroline.jalanti@dec.ny.gov

Re: Beacon Terminal – Revised Soil Cover Plan
BCP Site: C314117
GBTS Project: 22003-0094

Dear Ms. Jalanti:

This Revised Soil Cover Plan for the Beacon Terminal BCP Site C314117 has been prepared by Gallagher Bassett Technical Services (GBTS) to provide specifications for the installation of the required cover system.

BACKGROUND

An "opportunity to cure violation" letter was issued by the NYSDEC on December 1, 2022, which required the Volunteer to implement the remedial action independent of site redevelopment. In accordance with the NYSDEC Remedial Action Work Plan (RAWP, January 2014), the following components of the remedy have been implemented: the excavation of Area 1 (toluene-contaminated subsurface soil), Area 3 (polychlorinated biphenyls [PCBs] and metals in surface soil), and Area 4 (metals in surface soil); and, the closure of the monitoring well network.

To complete the remedy a composite cover system must be installed at locations where restricted residential use soil cleanup objective (RRU SCOs) exceedances remain. The composite cover system will be comprised of hardscape (existing building slabs), the thickness of which will be documented in the Construction Completion Report (CCR), or two feet of clean fill (meeting NYCRR Part 375.6.7(d) RRU SCOs) above a demarcation layer (e.g., orange snow fencing). The upper six inches of soil will be of sufficient quality to support vegetation.

Track 4 RRU SCO exceedances in surficial soil samples (collected from 2008 - 2009) were documented at fourteen (14) locations, outside of the remedied excavation areas (Area 1, 3, and 4). Additional surficial soil sampling was completed in December 2024 to account for surface soil data gaps in forested areas. Twelve (12) surface soil samples were collected and analyzed for volatile organic compounds (VOCs) and a subset (25%) were analyzed for semi-volatile organic compounds (SVOCs), including tentatively identified compounds (TICs), metals, pesticides/PCBs, and per- and polyfluoroalkyl substances (PFAS), in accordance with the NYSDEC-approved Soil Sampling Work Plan (October 2024). Arsenic was detected above RRU SCOs (Track 4 criteria) in one composite soil sample (5SS-1c; 21.4 parts per million [ppm], RRU SCO 16 ppm) and in its duplicate (DUP-20241211; 20.9 ppm). Metals, VOCs, SVOCs, and PFAS were reported below RRU SCOs, and VOC TICs, SVOC TICs, pesticides and PCBs were not detected.

Surface soil sample locations, RRU exceedances, and the proposed cover are depicted in the Cover System Map provided in Attachment A, and tabulated data (December 2024) are provided in Attachment B.

Fifteen (15) surficial soil sample locations (January 2008 – December 2024) documented track 4 RRU SCO exceedances. Each location requires 900 square-foot circles of composite cover (clean fill, hardscape, or a combination of the cover types).

The table below describes the cover types to be applied at each soil sample location:

Sample Name	Grid	Cover Type	Estimated Clean Fill Volume (cubic yards)
2B-05	E3 and F3	Clean fill	12
2B-15	B6	Hardscape	N/A
2B-15A	B5	Hardscape	N/A
2B-15C	B6	Hardscape	N/A
2HB-03	E6	Hardscape and Clean Fill	7
2HB-05	E8	Hardscape and Clean Fill	7
2HB-06	D9	Hardscape	N/A
2HB-08	C7	Hardscape and Clean Fill	3
3HB-01	D9	Hardscape	N/A
3HB-05	C1	Clean Fill	12
2TP-2	E2, E3, F2, and F3	Clean Fill	12
2TP-8	E3	Clean Fill	12
2TP-11/2TP-11B	G4	Clean Fill	12
2TP-15	G3	Clean Fill	12
5SS-1c	A7	Clean Fill	12

SITE PREPARATION SERVICES

Qualifications of On-site Remedial Personnel

Prior to the initiation of work, the identities and qualifications of the project managers and associated staff will be supplied to the NYSDEC. The Volunteer will ensure that qualified contractors are used. All on-site staff will be appropriately trained in accordance with Occupational Safety and Health Administration (OSHA) practices (29 CFR, Part 1910).

Health and Safety Plan (HASP)

All activities will be performed in accordance with the HASP provided in the RAWP. The HASP will be reviewed with site personnel and subcontractors prior to the initiation of specific fieldwork where contaminated media are likely to be encountered. All proposed work will be performed in "Level D" personal protective equipment. Field personnel (including subcontractors) will be prepared to continue services wearing more protective levels of equipment should field conditions warrant.

Community Air Monitoring

The NYSDOH Generic Community Air Monitoring Plan (CAMP; provided in Attachment C) will be initiated during all cover system installation activities, and during any other fieldwork that is reasonably likely to generate significant dust or vapors. The implementation of the CAMP will document the presence or absence of VOCs and dust in the air surrounding the work zone, which may migrate off-site due to fieldwork activities. This plan provides guidance on the need for implementing more stringent dust and emission controls based on air quality data.

Mitigation measures may include reducing the surface area of contaminated soil being disturbed at one time, watering exposed soils to reduce fugitive dust and odors, or stopping excavation activities. Dust suppression activities will be conducted during construction activities that will disturb on-site soils and may include misting, reduction in soil movement, or cessation of excavation.

Trail Use Management

The public will have access to Fisherman's Trail during installation of the cover system. If contractors need to make use of the trail to transport materials, flaggers will be positioned at the perimeter of the work zone on the Fisherman's Trail. Work will be halted and CAMP data reviewed before trail users are allowed to access the work zone.

Notifications

The NYSDEC will be notified in writing at least one week prior to the initiation of any of the on-site work, and during the course of the fieldwork if deemed necessary by on-site personnel. Changes to fieldwork scheduling will be provided via phone and/or email.

PROPOSED FIELDWORK

Community Air Monitoring Program (CAMP)

The RAWP CAMP will be implemented during all cover system installation activities. Air will be monitored upwind, downwind, and adjacent to the fisherman's trial for the presence of volatile organic compounds and dust.

Vegetation Clearing

Vegetation will be cleared in forested areas requiring installation of a clean soil cover. Clearing will include removal of large logs, brush, and small diameter trees (< 4-inch diameter). Stumps will be cut flush to existing grade or removed if required for soil remediation. Any depressions created from this process will be filled with NYSDEC-approved certified clean soil. Removed vegetation may be chipped or otherwise minimally processed on site and returned to the surface in areas outside the work zone.

Grubbing and excess soil/root disturbance is not permitted. Should clearing and equipment access result in significant exposed soils, a temporary or permanent vegetative cover shall be installed within 14 days in accordance with the Erosion and Sediment Control Plan (provided in Attachment D).

Cover System Installation

The cover system (required in areas where soil contamination exceeds Track 4 RRU SCOs) will be comprised of either soils meeting SCOs as described in 6 NYCRR Part 375.6.7 (d) RRU (determined to be suitable to sustain sufficient growth of vegetation in the upper 6 inches, and underlain with a demarcation layer) and or hardscape.

NYSDEC-approved soils for the cover system are currently stockpiled to the west of building B-7 (Grids E3, E4, F3 and F4). Documentation of the certified clean soils, including the soil request for reuse form (submitted to NYSDEC December 2023), supplementary PFAS sampling data (submitted to NYSDEC December 2023), and written NYSDEC-approval (June 2014) included as Attachment E.

Two feet of certified clean fill underlain by a demarcation layer (e.g., orange snow fencing) will act as cover for: forested areas (5SS-1C, 3HB-05, 2TP-8, 2TP-2, 2TP-15, and 2TP-11); areas with exposed soils (2HB-08, 2HB-03 and 2HB-05); and, the area with degraded asphalt pavement (2B-05). Certified clean fill will be applied in 900 square-foot circles centered over each sample location, modified as warranted by the presence of nearby site features, e.g., building outer walls, hardscape along the waterfront, etc.).

Building slabs, which are presumed to be 6 to 8 inches thick, will act as hardscape cover for soil contamination beneath Buildings B-1 (2HB-06 and 3HB-01) and B-5 (2B-15A, 2B-15, and 2B-15C), and as partial cover (together with clean fill) for soil contamination adjacent to Building slabs B-2, B-3, B-5, and B-7 (2HB-03, 2HB-05, and 2HB-08).

Exploratory Borings

Building slab thickness will be confirmed using exploratory cores at building slabs B-1, B-2, B-3, B-5, and B-7, which will be documented in the CCR. All slab cores will be restored with concrete to match existing conditions.

Reporting

GBTS and Bellucci Engineering (the remedial engineer) will oversee the installation of the cover system. Daily Status Reports documenting soil cover plan implementation, locations of work, summary of all complaints, summary of CAMP findings, and details of notable site conditions will be submitted within 24 hours of completion of each reporting period.

A CCR will be submitted following the completion of the cover system.

SCHEDULE

Week(s)	Activity
1	Revised Soil Cover Plan (SCP) submitted to the NYSDEC
2	Approval of SCP by NYSDEC
3	Site Preparations
4	Cover System Installation
5	Exploratory Cores
6-7	CCR preparation and submittal to NYSDEC

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CERTIFICATION

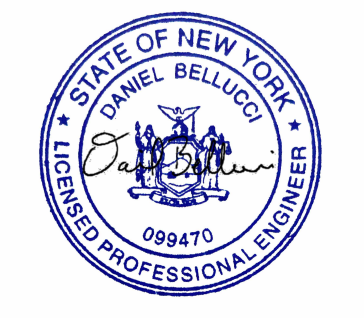
I Daniel Bellucci am the remedial engineer of record for this project and I am certifying that I am familiar with all requirements of approved RAWP and the Construction Completion Report and the Final Engineering Report will be certified by me.

PE Name: Daniel Bellucci

PE License Number: 099470

PE Signature:

Date: May 29, 2025



If you have any questions or comments, or require clarification on any item, please do not hesitate to contact me at (845) 867-4715.

Respectfully submitted,
Gallagher Bassett Technical Services

Caroline Clark
Project Manager, Environmental Consultant

Reviewed by,
Gallagher Bassett Technical Services

Scott Spitzer
Technical Director, Environmental Consulting

ATTACHMENTS:

A Cover System Map
B Surface Soil Data Table (December 2024)
C Community Air Monitoring Plan
D Erosion and Sediment Control Plan
E Soil Importation Approval Letter, Soil Request for Reuse Form, Laboratory Results (December 2023)

ATTACHMENT A

Cover System Map

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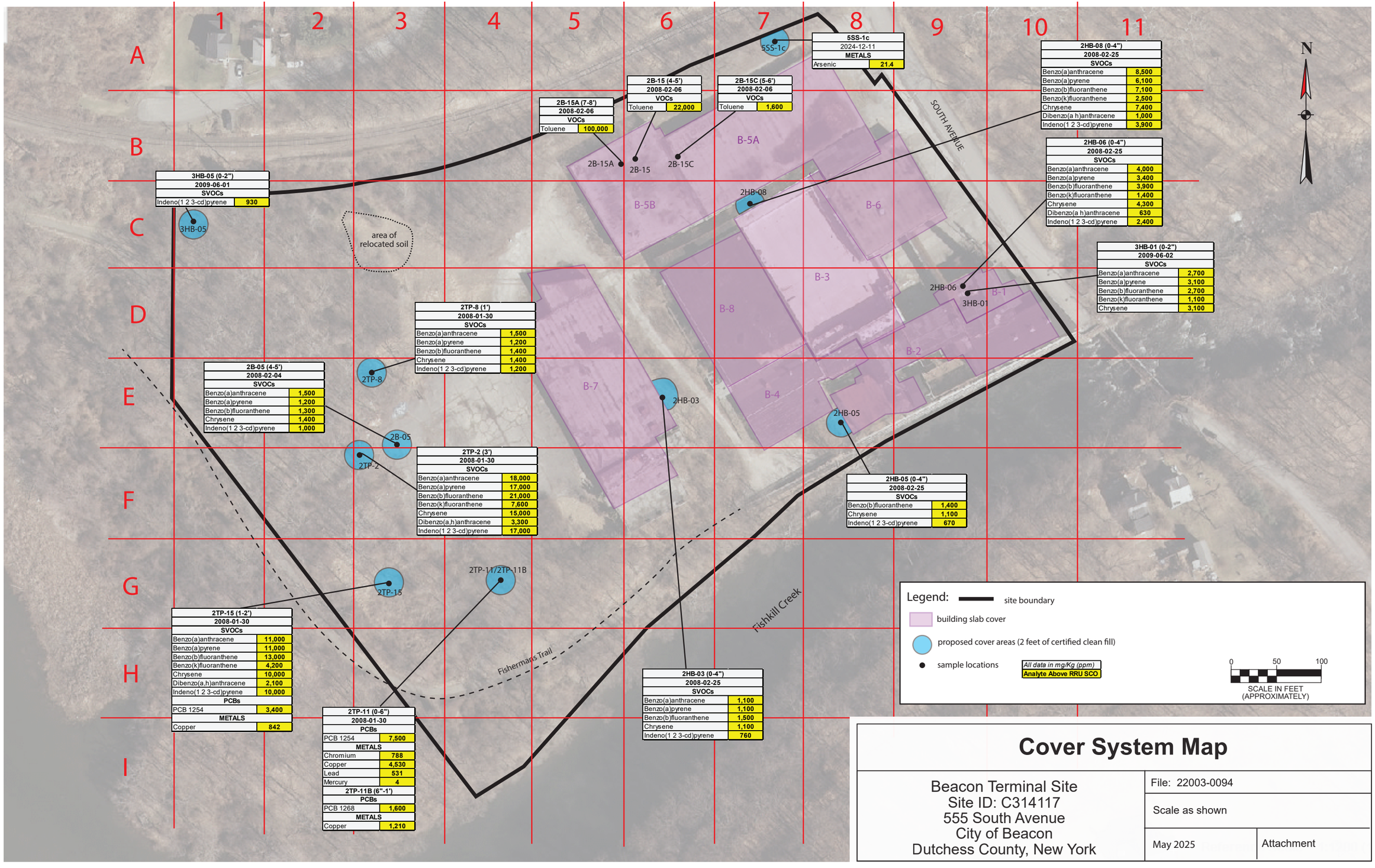

Cover System Map

Beacon Terminal Site
Site ID: C314117
555 South Avenue
City of Beacon
Dutchess County, New York

File: 22003-0094

Scale as shown

May 2025

Attachment

ATTACHMENT B

Surface Soil Data Table
(December 2024)

Table 1: VOCs in Soils

BCP Site ID: C314117
GBTS File: 22003-0094

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	Sample	5SS-1v		5SS-2v		5SS-3v		5SS-4v	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	1		1		1		1	
VOCs, 8260	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
1,1,1,2-tetrachloroethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,1,1-trichloroethane	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,1,2,2-tetrachloroethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,1,2-trichloro-1,2,2-trifluoroethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,1,2-trichloroethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,1-dichloroethane	26	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,1-dichloroethylene (1,1-DCE)	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,2,3-trichlorobenzene	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,2,3-trichloropropane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,2,4-trichlorobenzene	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,2,4-trimethylbenzene	52	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,2-dibromo-3-chloropropane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,2-dibromoethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,2-dichlorobenzene	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,2-dichloroethane	3.1	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,2-dichloropropane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,3,5-trimethylbenzene	52	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,3-dichlorobenzene	49	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,4-dichlorobenzene	13	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
1,4-dioxane	13	0.056	*U*	0.037	*U*	0.047	*U*	0.045	*U*
2-butanone (MEK)	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
2-hexanone	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
4-methyl-2-pentanone	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
acetone	100	0.0056	*U*	0.0037	*U*	0.0062	*J*	0.0045	*U*
acrolein	NA	0.0056	*U*	0.0037	*U*	0.0047	*U*	0.0045	*U*
acrylonitrile	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
benzene	4.8	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
bromochloromethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
bromodichloromethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
bromoform	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
bromomethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
carbon disulfide	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
carbon tetrachloride	2.4	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
chlorobenzene	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
chloroethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
chloroform	49	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
chloromethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
cis-1,2-dichloroethylene (cis-DCE)	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
cis-1,3-dichloropropylene	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
cyclohexane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
dibromochloromethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
dibromomethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
dichlorodifluoromethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
ethyl benzene	41	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
hexachlorobutadiene	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
isopropylbenzene	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
methyl acetate	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
methyl tert-butyl ether (MTBE)	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
methylcyclohexane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
methylene chloride	100	0.0056	*U*	0.0037	*U*	0.0047	*U*	0.0045	*U*
n-butylbenzene	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
n-propylbenzene	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
o-xylene	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
p- & m- xylenes	100	0.0056	*U*	0.0037	*U*	0.0047	*U*	0.0045	*U*
p-isopropyltoluene	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
sec-butylbenzene	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
styrene	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
tert-butyl alcohol (TBA)	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
tert-butylbenzene	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
tetrachloroethylene (PCE)	19	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
toluene	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
trans-1,2-dichloroethylene (trans-DCE)	100	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
trans-1,3-dichloropropylene	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
trichloroethylene (TCE)	21	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
trichlorofluoromethane	NA	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
vinyl chloride (VC)	0.9	0.0028	*U*	0.0018	*U*	0.0024	*U*	0.0023	*U*
xylenes, total	100	0.0084	*U*	0.0055	*U*	0.0071	*U*	0.0068	*U*

Analyte Detected

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: VOCs in Soils

BCP Site ID: C314117
GBTS File: 22003-0094

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	Sample	5SS-5v		5SS-6v		5SS-7v		5SS-8v	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	1		1		1		1	
VOCs, 8260	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
1,1,1,2-tetrachloroethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,1,1-trichloroethane	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,1,2,2-tetrachloroethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,1,2-trichloro-1,2,2-trifluoroethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,1,2-trichloroethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,1-dichloroethane	26	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,1-dichloroethylene (1,1-DCE)	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,2,3-trichlorobenzene	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,2,3-trichloropropane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,2,4-trichlorobenzene	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,2,4-trimethylbenzene	52	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,2-dibromo-3-chloropropane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,2-dibromoethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,2-dichlorobenzene	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,2-dichloroethane	3.1	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,2-dichloropropane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,3,5-trimethylbenzene	52	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,3-dichlorobenzene	49	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,4-dichlorobenzene	13	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
1,4-dioxane	13	0.041	*U*	0.051	*U*	0.062	*U*	0.085	*U*
2-butanone (MEK)	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
2-hexanone	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
4-methyl-2-pentanone	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
acetone	100	0.0041	*U*	0.0051	*U*	0.0062	*U*	0.0085	*U*
acrolein	NA	0.0041	*U*	0.0051	*U*	0.0062	*U*	0.0085	*U*
acrylonitrile	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
benzene	4.8	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
bromochloromethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
bromodichloromethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
bromoform	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
bromomethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
carbon disulfide	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
carbon tetrachloride	2.4	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
chlorobenzene	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
chloroethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
chloroform	49	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
chloromethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
cis-1,2-dichloroethylene (cis-DCE)	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
cis-1,3-dichloropropylene	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
cyclohexane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
dibromochloromethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
dibromomethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
dichlorodifluoromethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
ethyl benzene	41	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
hexachlorobutadiene	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
isopropylbenzene	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
methyl acetate	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
methyl tert-butyl ether (MTBE)	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
methylcyclohexane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
methylene chloride	100	0.0041	*U*	0.0051	*U*	0.0062	*U*	0.0085	*U*
n-butylbenzene	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
n-propylbenzene	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
o-xylene	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
p- & m- xylenes	100	0.0041	*U*	0.0051	*U*	0.0062	*U*	0.0085	*U*
p-isopropyltoluene	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
sec-butylbenzene	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
styrene	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
tert-butyl alcohol (TBA)	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
tert-butylbenzene	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
tetrachloroethylene (PCE)	19	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
toluene	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
trans-1,2-dichloroethylene (trans-DCE)	100	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
trans-1,3-dichloropropylene	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
trichloroethylene (TCE)	21	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
trichlorofluoromethane	NA	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
vinyl chloride (VC)	0.9	0.0021	*U*	0.0026	*U*	0.0031	*U*	0.0043	*U*
xylenes, total	100	0.0062	*U*	0.0077	*U*	0.0092	*U*	0.013	*U*

Analyte Detected

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: VOCs in Soils

BCP Site ID: C314117
GBTS File: 22003-0094

GALLAGHER BASSETT | TECHNICAL SERVICES

	Sample	5SS-9v		5SS-10v		5SS-11v		5SS-12v	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	1		1		1		1	
VOCs, 8260	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
1,1,1,2-tetrachloroethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,1,1-trichloroethane	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,1,2,2-tetrachloroethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,1,2-trichloro-1,2,2-trifluoroethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,1,2-trichloroethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,1-dichloroethane	26	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,1-dichloroethylene (1,1-DCE)	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,2,3-trichlorobenzene	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,2,3-trichloropropane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,2,4-trichlorobenzene	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,2,4-trimethylbenzene	52	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,2-dibromo-3-chloropropane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,2-dibromoethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,2-dichlorobenzene	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,2-dichloroethane	3.1	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,2-dichloropropane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,3,5-trimethylbenzene	52	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,3-dichlorobenzene	49	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,4-dichlorobenzene	13	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
1,4-dioxane	13	0.029	*U*	0.07	*U*	0.037	*U*	0.054	*U*
2-butanone (MEK)	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
2-hexanone	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
4-methyl-2-pentanone	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
acetone	100	0.0046	*J*	0.081		0.011		0.0054	*U*
acrolein	NA	0.0029	*U*	0.007	*U*	0.0037	*U*	0.0054	*U*
acrylonitrile	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
benzene	4.8	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
bromochloromethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
bromodichloromethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
bromoform	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
bromomethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
carbon disulfide	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
carbon tetrachloride	2.4	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
chlorobenzene	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
chloroethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
chloroform	49	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
chloromethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
cis-1,2-dichloroethylene (cis-DCE)	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
cis-1,3-dichloropropylene	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
cyclohexane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
dibromochloromethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
dibromomethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
dichlorodifluoromethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
ethyl benzene	41	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
hexachlorobutadiene	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
isopropylbenzene	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
methyl acetate	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
methyl tert-butyl ether (MTBE)	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
methylcyclohexane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
methylene chloride	100	0.0029	*U*	0.007	*U*	0.0037	*U*	0.0054	*U*
n-butylbenzene	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
n-propylbenzene	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
o-xylene	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
p- & m- xylenes	100	0.0029	*U*	0.007	*U*	0.0037	*U*	0.0054	*U*
p-isopropyltoluene	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
sec-butylbenzene	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
styrene	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
tert-butyl alcohol (TBA)	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
tert-butylbenzene	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
tetrachloroethylene (PCE)	19	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
toluene	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
trans-1,2-dichloroethylene (trans-DCE)	100	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
trans-1,3-dichloropropylene	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
trichloroethylene (TCE)	21	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
trichlorofluoromethane	NA	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
vinyl chloride (VC)	0.9	0.0015	*U*	0.0035	*U*	0.0019	*U*	0.0027	*U*
xylenes, total	100	0.0044	*U*	0.011	*U*	0.0056	*U*	0.008	*U*

Analyte Detected

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 2: VOC TICs in Soils

BCP Site ID: C314117
GBTS File: 22003-0094

GALLAGHER BASSETT | TECHNICAL SERVICES

	Sample	5SS-1v		5SS-2v		5SS-3v		5SS-4v	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	1		1		1		1	
VOC TICs	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
Total Reported VOC-TICs	NA	0	*U*	0	*U*	0	*U*	0	*U*

	Sample	5SS-5v		5SS-6v		5SS-7v		5SS-8v	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	1		1		1		1	
VOC TICs	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
Total Reported VOC-TICs	NA	0	*U*	0	*U*	0	*U*	0	*U*

	Sample	5SS-9v		5SS-10v		5SS-11v		5SS-12v	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	1		1		1		1	
VOC TICs	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
Total Reported VOC-TICs	NA	0	*U*	0	*U*	0	*U*	0	*U*

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 3: SVOCs in Soils

BCP Site ID: C314117

GBTS File: 22003-0094

GALLAGHER BASSETT | TECHNICAL SERVICES

	Sample	5SS-1c		DUP-20241211		5SS-8c		5SS-11c	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	2		2		2		2	
SVOCs, 8270	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
1,1'-biphenyl	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
1,2,4,5-tetrachlorobenzene	NA	0.13	*U*	0.114	*U*	0.109	*U*	0.114	*U*
1,2,4-trichlorobenzene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
1,2-dichlorobenzene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
1,2-diphenylhydrazine (azobenzene)	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
1,3-dichlorobenzene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
1,4-dichlorobenzene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2,3,4,6-tetrachlorophenol	NA	0.13	*U*	0.114	*U*	0.109	*U*	0.114	*U*
2,4,5-trichlorophenol	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2,4,6-trichlorophenol	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2,4-dichlorophenol	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2,4-dimethylphenol	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2,4-dinitrophenol	NA	0.13	*U*	0.114	*U*	0.109	*U*	0.114	*U*
2,4-dinitrotoluene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2,6-dinitrotoluene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2-chloronaphthalene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2-chlorophenol	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2-methylnaphthalene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2-methylphenol	100	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
2-nitroaniline	NA	0.13	*U*	0.114	*U*	0.109	*U*	0.114	*U*
2-nitrophenol	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
3- & 4-methylphenols	100	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
3,3'-dichlorobenzidine	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
3-nitroaniline	NA	0.13	*U*	0.114	*U*	0.109	*U*	0.114	*U*
4,6-dinitro-2-methylphenol	NA	0.13	*U*	0.114	*U*	0.109	*U*	0.114	*U*
4-bromophenyl phenyl ether	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
4-chloro-3-methylphenol	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
4-chloroaniline	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
4-chlorophenyl phenyl ether	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
4-nitroaniline	NA	0.13	*U*	0.114	*U*	0.109	*U*	0.114	*U*
4-nitrophenol	NA	0.13	*U*	0.114	*U*	0.109	*U*	0.114	*U*
acenaphthene	100	0.065	*U*	0.144	*D*	0.0547	*U*	0.0572	*U*
acenaphthylene	100	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
acetophenone	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
aniline	NA	0.26	*U*	0.228	*U*	0.218	*U*	0.229	*U*
anthracene	100	0.0871	*JD*	0.264	*D*	0.0547	*U*	0.0572	*U*
atrazine	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
benzaldehyde	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
benzidine	NA	0.26	*U*	0.228	*U*	0.218	*U*	0.229	*U*
benzo(a)anthracene	1	0.307	*D*	0.615	*D*	0.0547	*U*	0.093	*JD*
benzo(a)pyrene	1	0.175	*D*	0.35	*D*	0.0547	*U*	0.0593	*JD*
benzo(b)fluoranthene	1	0.298	*D*	0.623	*D*	0.0547	*U*	0.109	*JD*
benzo(g,h,i)perylene	100	0.174	*D*	0.35	*D*	0.0547	*U*	0.0572	*U*
benzo(k)fluoranthene	3.9	0.188	*D*	0.305	*D*	0.0547	*U*	0.1	*JD*
benzoic acid	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
benzyl alcohol	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
benzyl butyl phthalate	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
bis(2-chloroethoxy)methane	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
bis(2-chloroethyl)ether	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
bis(2-chloroisopropyl)ether	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
bis(2-ethylhexyl)phthalate	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
caprolactam	NA	0.13	*U*	0.114	*U*	0.109	*U*	0.114	*U*
carbazole	NA	0.065	*U*	0.0856	*JD*	0.0547	*U*	0.0572	*U*
chrysene	3.9	0.292	*D*	0.545	*D*	0.0547	*U*	0.0867	*JD*
dibenzo(a,h)anthracene	0.33	0.065	*U*	0.0974	*JD*	0.0547	*U*	0.0572	*U*
dibenzofuran	59	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
diethyl phthalate	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
dimethyl phthalate	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
di-n-butyl phthalate	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
di-n-octyl phthalate	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
fluoranthene	100	0.587	*D*	1.25	*D*	0.0547	*U*	0.139	*D*
fluorene	100	0.065	*U*	0.0865	*JD*	0.0547	*U*	0.0572	*U*
hexachlorobenzene	1.2	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
hexachlorobutadiene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
hexachlorocyclopentadiene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
hexachloroethane	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
indeno(1,2,3-cd)pyrene	0.5	0.228	*D*	0.38	*D*	0.0547	*U*	0.0572	*U*
isophorone	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
naphthalene	100	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
nitrobenzene	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
n-nitrosodimethylamine	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
n-nitroso-di-n-propylamine	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
n-nitrosodiphenylamine	NA	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
pentachlorophenol	6.7	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
phenanthrene	100	0.395	*D*	0.973	*D*	0.0547	*U*	0.0572	*U*
phenol	100	0.065	*U*	0.0571	*U*	0.0547	*U*	0.0572	*U*
pyrene	100	0.586	*D*	1.21	*D*	0.0547	*U*	0.0572	*U*

Analyte Detected

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available

Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 4: SVOC TICs in Soils

BCP Site ID: C314117
GBTS File: 22003-0094

	Sample	5SS-1c		DUP-20241211		5SS-8c		5SS-11c	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	2		2		2		2	
SVOC TICs	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
Total Reported SVOC-TICs	NA	0	*U*	0	*U*	0	*U*	0	*U*

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 5: Pesticides and PCBs in Soils

BCP Site ID: C314117
GBTS File: 22003-0094

GALLAGHER BASSETT | TECHNICAL SERVICES

	Sample	5SS-1c		DUP-20241211		5SS-8c		5SS-11c	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	5		5		5		5	
Pesticides, 8081	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
4,4'-DDD	13	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
4,4'-DDE	8.9	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
4,4'-DDT	7.9	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Aldrin	0.097	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
alpha-BHC	0.48	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
alpha-Chlordane	4.2	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
beta-BHC	0.36	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Chlordane (total)	NA	0.05	*U*	0.0443	*U*	0.0422	*U*	0.0446	*U*
delta-BHC	100	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Dieldrin	0.2	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Endosulfan I	24	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Endosulfan II	24	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Endosulfan sulfate	24	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Endrin	11	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Endrin aldehyde	NA	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Endrin ketone	NA	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
gamma-BHC (Lindane)	1.3	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
gamma-Chlordane	NA	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Heptachlor	2.1	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Heptachlor Epoxide	NA	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Methoxychlor	NA	0.0025	*U*	0.00222	*U*	0.00211	*U*	0.00223	*U*
Toxaphene	NA	0.25	*U*	0.222	*U*	0.211	*U*	0.223	*U*

	Sample	5SS-1c		DUP-20241211		5SS-8c		5SS-11c	
	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
	Dilution	1		1		1		1	
PCBs, 8082	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
Aroclor 1016	1.00	0.0252	*U*	0.0224	*U*	0.0213	*U*	0.0225	*U*
Aroclor 1221	1.00	0.0252	*U*	0.0224	*U*	0.0213	*U*	0.0225	*U*
Aroclor 1232	1.00	0.0252	*U*	0.0224	*U*	0.0213	*U*	0.0225	*U*
Aroclor 1242	1.00	0.0252	*U*	0.0224	*U*	0.0213	*U*	0.0225	*U*
Aroclor 1248	1.00	0.0252	*U*	0.0224	*U*	0.0213	*U*	0.0225	*U*
Aroclor 1254	1.00	0.0252	*U*	0.0224	*U*	0.0213	*U*	0.0225	*U*
Aroclor 1260	1.00	0.0252	*U*	0.0224	*U*	0.0213	*U*	0.0225	*U*
Aroclor, Total	1.00	0.0252	*U*	0.0224	*U*	0.0213	*U*	0.0225	*U*

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 6: TAL Metals in Soils

BCP Site ID: C314117
GBTS File: 22003-0094

GALLAGHER BASSETT | TECHNICAL SERVICES

	Sample	5SS-1c		DUP-20241211		5SS-8c		5SS-11c	
All data in mg/Kg (ppm)	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
U= Not Detected ≥ value	Dilution	1		1		1		1	
Metals, 6010 and 7473	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
aluminum	NA	16,000		14,400		17,700		24,300	
antimony	NA	7.55		7.71		2.73	*U*	2.86	*U*
arsenic	16	21.4		20.9		10.2		9.23	
barium	400	78.9		73.9		96.5		76.2	
beryllium	72	0.78	*B*	0.715	*B*	0.834	*B*	0.961	*B*
cadmium	4.3	0.39	*U*	0.343	*U*	0.328	*U*	0.343	*U*
calcium	NA	29,600		18,100		5,000		1,990	
chromium	180	20.8		20.6		21.8		21.4	
chromium (hexavalent)	110	0.78	*U*	0.685	*U*	0.656	*U*	0.686	*U*
cobalt	NA	9.21		8.57		12.8		9.08	
copper	270	38.4		34		37.6		22.3	
iron	NA	23,600		21,200		28,000		22,800	
lead	400	92.6		98.8		27.5		40.9	
magnesium	NA	18,200		12,000		6,050		4,270	
manganese	2,000	487		447		860		391	
mercury	0.81	0.201		0.147		0.0779		0.161	
nickel	310	27.6		26.2		31.5		24.4	
potassium	NA	2,470		2,380		2,560		1,150	
selenium	180	3.59		3.46		4.41		3.65	
silver	180	0.655	*U*	0.575	*U*	0.551	*U*	0.577	*U*
sodium	NA	110		99.7		68		57.2	*U*
thallium	NA	3.25	*U*	2.85	*U*	2.73	*U*	2.86	*U*
vanadium	NA	32.7		33.7		28.9		45.5	
zinc	10,000	206		191		95.7		119	
cyanide (total)	27	0.78	*U*	0.685	*U*	0.656	*U*	0.686	*U*

Analyte Detected
Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 7: PFAS and 1,4-Dioxane in Soils

BCP Site ID: C314117

GBTS Project: 22003-0094

GALLAGHER BASSETT | TECHNICAL SERVICES

	Sample	5SS-1c		DUP-20241211		5SS-8c		5SS-11c	
U= Not Detected ≥ value	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
Data in µg/Kg (ppb)	Dilution	1		1		1		1	
PFAS	**RRU**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
11CL-PF3OUdS	NA	0.000485	*U*	0.000425	*U*	0.000407	*U*	0.000427	*U*
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTS)	NA	0.00118	*U*	0.00103	*U*	0.000989	*U*	0.00104	*U*
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS)	NA	0.000929	*U*	0.000814	*U*	0.000779	*U*	0.000817	*U*
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS)	NA	0.00117	*U*	0.00103	*U*	0.000982	*U*	0.00103	*U*
3-perfluoroheptyl propanoic acid (FHpPA)	NA	0.00234	*U*	0.00205	*U*	0.00196	*U*	0.00206	*U*
3-perfluoropentyl propanoic acid (FPePA)	NA	0.00327	*U*	0.00287	*U*	0.00275	*U*	0.00288	*U*
3-perfluoropropyl propanoic acid (FPrPA)	NA	0.000989	*U*	0.000867	*U*	0.00083	*U*	0.00087	*U*
9CL-PF3ONS	NA	0.000384	*U*	0.000336	*U*	0.000322	*U*	0.000338	*U*
ADONA	NA	0.000272	*U*	0.000238	*U*	0.000228	*U*	0.000239	*U*
HFPO-DA (Gen-X)	NA	0.000949	*U*	0.000831	*U*	0.000796	*U*	0.000835	*U*
N-EtFOSA	NA	0.000309	*U*	0.000271	*U*	0.000259	*U*	0.000272	*U*
N-EtFOSAA	NA	0.000303	*U*	0.000265	*U*	0.000254	*U*	0.000266	*U*
N-EtFOSE	NA	0.00109	*U*	0.000953	*U*	0.000913	*U*	0.000957	*U*
N-MeFOSA	NA	0.000281	*U*	0.000246	*U*	0.000236	*U*	0.000247	*U*
N-MeFOSAA	NA	0.000231	*U*	0.000202	*U*	0.000194	*U*	0.000203	*U*
N-MeFOSE	NA	0.000954	*U*	0.000835	*U*	0.0008	*U*	0.000839	*U*
perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NA	0.000217	*U*	0.00019	*U*	0.000182	*U*	0.000191	*U*
perfluoro-1-decanesulfonic acid (PFDS)	NA	0.000298	*U*	0.000261	*U*	0.00025	*U*	0.000262	*U*
perfluoro-1-heptanesulfonic acid (PFHpS)	NA	0.000242	*U*	0.000212	*U*	0.000203	*U*	0.000213	*U*
perfluoro-1-nonanesulfonic acid (PFNS)	NA	0.000194	*U*	0.00017	*U*	0.000162	*U*	0.00017	*U*
perfluoro-1-octanesulfonamide (FOSA)	NA	0.000228	*U*	0.0002	*U*	0.000191	*U*	0.0002	*U*
perfluoro-1-pentanesulfonate (PFPeS)	NA	0.000245	*U*	0.000215	*U*	0.000206	*U*	0.000216	*U*
perfluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	0.000301	*U*	0.000264	*U*	0.000253	*U*	0.000265	*U*
perfluoro-4-oxapentanoic acid (PFMPA)	NA	9.68E-05	*U*	8.48E-05	*U*	8.12E-05	*U*	8.51E-05	*U*
perfluoro-5-oxahexanoic acid (PFMBA)	NA	0.00015	*U*	0.000131	*U*	0.000126	*U*	0.000132	*U*
perfluorobutanesulfonic acid (PFBS)	NA	0.000173	*U*	0.000152	*U*	0.000145	*U*	0.000152	*U*
perfluorodecanoic acid (PFDA)	NA	0.000323		0.000275		0.00025	*U*	0.000262	*U*
perfluorododecanesulfonic acid (PFDoS)	NA	0.000264	*U*	0.000231	*U*	0.000221	*U*	0.000232	*U*
perfluorododecanoic acid (PFDoA)	NA	0.000254	*U*	0.000223	*U*	0.000213	*U*	0.000224	*U*
perfluoroheptanoic acid (PFHpA)	NA	0.000164	*U*	0.000144	*U*	0.000151	*J*	0.000181	*J*
perfluorohexanesulfonic acid (PFHxS)	NA	0.000279	*U*	0.000245	*U*	0.000234	*U*	0.000246	*U*
perfluorohexanoic acid (PFHxA)	NA	8.27E-05	*U*	7.25E-05	*U*	0.000077	*J*	0.000123	*J*
perfluoro-n-butanoic acid (PFBA)	NA	0.00017	*U*	0.000149	*U*	0.000143	*U*	0.00015	*U*
perfluorononanoic acid (PFNA)	NA	0.000531		0.000432		0.000302		0.000414	
perfluorooctanesulfonic acid (PFOS)	44	0.00172		0.00163		0.00124		0.00122	
perfluorooctanoic acid (PFOA)	33	0.000728		0.00057		0.0007		0.000528	
perfluoropentanoic acid (PFPeA)	NA	0.00017	*U*	0.000149	*U*	0.000143	*U*	0.00015	*U*
perfluorotetradecanoic acid (PFTA)	NA	0.000161	*U*	0.000141	*U*	0.000135	*U*	0.000141	*U*
perfluorotridecanoic acid (PFTrDA)	NA	0.000195	*U*	0.000171	*U*	0.000164	*U*	0.000172	*U*
perfluoroundecanoic acid (PFUnA)	NA	0.000492		0.000444		0.000259	*U*	0.000272	*U*

	Sample	5SS-1c		DUP-20241211		5SS-8c		5SS-11c	
	Date	2024-12-11		2024-12-11		2024-12-11		2024-12-11	
Data in mg/Kg (ppm)	Dilution	1		1		1		1	
1,4-Dioxane 8270 SIM	**RRU SCO**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
1,4-dioxane	13	0.0194	*U*	0.0194	*U*	0.0194	*U*	0.0194	*U*

Analyte Detected

Notes: SCOs/guidance values based on NYSDEC Part 375-6.8 and current NYSDEC guidance NA = not available

Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

ATTACHMENT C

Community Air Monitoring Plan

New York State Department of Health
Generic Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for volatile organic compounds (VOCs) and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to

leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored **continuously** at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings must be recorded and be available for State (DEC and DOH) personnel to review.

ATTACHMENT D

Erosion and Sediment Control Plan

INSPECTION SCHEDULE & MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES

PERMANENT AND TEMPORARY VEGETATION:
INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT WITH RAINFALL THAT EQUALS OR EXCEEDS 0.5 INCH. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE:
INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT WITH RAINFALL THAT EQUALS OR EXCEEDS 0.5 INCH. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. REGRADE PAD AS NEEDED FOR RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE AS DIRECTED BY PROJECT ENGINEER.

CONSTRUCTION ENTRANCE, CONTAMINATED SOIL STOCKPILES AND DECONTAMINATION PAD ADDITIONAL NOTES:
REMOVE SEVERAL INCHES OF SOIL FROM BENEATH ANY ON-SITE STOCKPILE. THE STABILIZED CONSTRUCTION ENTRANCE AND DECONTAMINATION PAD, IF NOT LOCATED ON TOP OF AN IMPERVIOUS SURFACE (I.E. ASPHALT, CONCRETE), WILL BE EXCAVATED FOR OFF-SITE DISPOSAL AT AN APPROVED FACILITY. STONE / AGGREGATE FOR THE DECONTAMINATION PAD AND STABILIZED CONSTRUCTION ENTRANCE MAY BE RE-USED ON-SITE IF IT WASHED IS OF SEDIMENT AND DEBRIS.

SILT FENCE:
INSPECT FOR DAMAGE EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT WITH RAINFALL THAT EQUALS OR EXCEEDS 0.5 INCH. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO ONE-QUARTER THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

TOPSOIL STOCKPILE:
INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT WITH RAINFALL THAT EQUALS OR EXCEEDS 0.5 INCH. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO ONE-QUARTER THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCKPILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

DUST CONTROL:
SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORKS. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

CHECK DAM:
INSPECT CHECK DAMS EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT WITH RAINFALL THAT EQUALS OR EXCEEDS 0.5 INCH. IF SIGNIFICANT EROSION OCCURS BETWEEN STRUCTURES, A LINER OF STONE OR OTHER SUITABLE MATERIAL SHOULD BE INSTALLED IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAM AS NEEDED TO ALLOW CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER APPROVAL OF THE PROJECT ENGINEER.

EROSION CONTROL BLANKET:
INSPECT THE BLANKET EVERY SEVEN DAYS AND AFTER EVERY STORM EVENT WITH RAINFALL THAT EQUALS OR EXCEEDS 0.5 INCH. REPLACE WIRE STAPLES AS REQUIRED. REPAIR AND RESEED WHERE CRACKS AND DAMAGED VEGETATION IS EVIDENT. WHEN DAMAGED BEYOND REPAIR OR NO LONGER FUNCTIONING, THE BLANKET SHALL BE REPLACED.

DEWATERING PITS:
INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PIPES OF OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, PIT SHALL BE DISMANTLED AND NEW PITS SHALL BE CONSTRUCTED AS NEEDED.

CATCH BASINS:
ALL CATCH BASINS SHALL BE INSPECTED AFTER EACH STORM EVENT FOR SEDIMENT ACCUMULATION, AND DEBRIS, AND REMOVE AS NECESSARY. THE INLET PROTECTION SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND REPLACED AS NECESSARY. WHEN SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN SUMP REACHES 1/2 OF THE SUMP DEPTH, IT SHALL BE REMOVED.

SOIL RESTORATION NOTES:

1. THE CONSTRACTOR SHALL EMPLOY SOIL RESTORATION TO ALL DISTURBED AREAS THAT WILL REMAIN LANDSCAPED.
2. FOR LIGHT TRAFFIC AREAS AROUND THE EXCAVATION AREAS, SOIL RESTORATION MAY BE ACCOMPLISHED BY MEANS OF TILLING THE SOIL WITH A DISK TYPE TILLER, OR SPIKE ROLLER PULLED BY A TRACTOR AND PLACEMENT OF TOPSOIL OVER THE EXISTING SOIL A.O.B.E..

CONSTRUCTION SEQUENCE:

DISTURBANCE AREA = 0.9 AC.

1. SCHEDULE A PRE-CONSTRUCTION MEETING WHICH SHALL INCLUDE THE TOWN MS4 OFFICER, OWNER OR OWNER'S REPRESENTATIVE, PROJECT ENGINEER, CONTRACTOR AND SUBCONTRACTORS (IF NECESSARY) WHO ARE TO PERFORM THE CONSTRUCTION.
2. ESTABLISH THE LIMIT OF DISTURBANCE FOR PROPOSED CLEARING AND GRADING ASSOCIATED WITH THE PROPOSED INTERNAL TRAVEL-WAYS SURROUNDING THE REMEDIATION/EXCAVATION AREAS, BORROW PIT AND PROPOSED SOIL STOCKPILE AREAS.
3. CUT WEEDS GROWING WITHIN EXISTING CONSTRUCTION ENTRANCE.
4. INSTALL PERIMETER SILT FENCE AS DEPICTED ON THIS PLAN.
5. PRIOR TO FURTHER CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER TO CONDUCT A PRE-CONSTRUCTION SITE ASSESSMENT TO VERIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS SHOWN ON THIS PLAN HAVE BEEN ADEQUATELY INSTALLED ENSURING OVERALL PREPAREDNESS OF THIS SITE FOR THE COMMENCEMENT OF CONSTRUCTION.
6. MOVE EXISTING STONE PILE TO THE LOCATION DESIGNATED ON THIS PLAN.
7. CONSTRUCT DIVERSION SWALE AND FLOW DIFFUSER.
8. REMEDIATION AND EXCAVATION WORK TO BE DONE ON DRY DAYS ONLY.
9. BEGIN REMEDIATION WORK BY REMOVING SOIL FROM ONE AREA AT A TIME AND STOCKPILE CONTAMINATED SOIL IN THE AREAS DESIGNATED ON THIS PLAN.
10. CONTAMINATED STOCKPILES TO BE COVERED WITH 6 MIL IMPERMEABLE BARRIERS HELD DOWN WITH SAND BAGS AT THE END OF EACH WORK DAY.
11. BACKFILL EXCAVATED AREAS IMMEDIATELY AFTER THE ENVIRONMENTAL SITE MONITOR PERMITS THE AREA TO BE FILLED. PREVENT WATER FROM ENTERING THE EXCAVATED AREA.
12. BEGIN WORK IN OTHER REMEDIATION EXCAVATION AREAS WHEN THE FIRST AREA IS COMPLETE. EXCAVATION AREAS WILL BE SHROUDED WITH TARPS AND SURROUNDED BY CHAIN LINK FENCING.
13. CONTAMINATED SOIL SHALL ONLY HAULED OFF THE SITE ON DRY DAYS. THE AREA FOR HAUL TRUCKS TO MANEUVER SHALL BE CLEANED OF CONTAMINATED SOIL PRIOR TO USE TO MINIMIZE CONTAMINATED SOIL ON THE HAUL TRUCKS.
14. DECONTAMINATION SHALL BE ACCOMPLISHED BY BRUSHING OFF SOIL COLLECTED IN THE TRUCK TIRES ON DRY DAYS WITHIN THE DECONTAMINATION PAD. THE PAD WITH SUMP DETAIL IS ONLY TO BE USED IF THE SOIL IS WET AND CANNOT BE REMOVED BY BRUSHES AND/OR BROOMS.
15. DECONTAMINATION PAD TO BE CLEANED OF ANY CONTAMINATED SOIL AT THE END OF EACH DAY WHILE HAULING OFFSITE IS TAKING PLACE. CONTAMINATED SOIL TO BE PLACED IN AN APPROPRIATE CONTAMINATED SOIL STOCKPILE.
16. SEED AND MULCH DISTURBED AREAS THAT ARE NOT PAVED AREAS.

GENERAL NOTE: EROSION CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AS NEEDED DURING CONSTRUCTION ACTIVITIES AND BASED ON THE MAINTENANCE SCHEDULE. ADDITIONAL EROSION CONTROL MEASURES BASED ON SITE CONDITIONS SHALL BE PROVIDED AS NECESSARY IN ORDER TO PROTECT ADJACENT PARCELS AND WATERS.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION CONTROL MEASURES EMPLOYED DURING THE CONSTRUCTION PROCESS SHALL BE INSPECTED BY THE CONTRACTOR IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE PROVIDED ON THIS SHEET. ALL EROSION CONTROL STRUCTURES SHALL BE REPAIRED AND MAINTAINED AS NECESSARY BY THE CONTRACTOR.
2. ALL STORMWATER MANAGEMENT STRUCTURES (E.G., SWALES, CULVERTS) SHALL BE REGULARLY INSPECTED FOR SEDIMENT ACCUMULATIONS. SEDIMENT AND TRASH SHALL BE REMOVED, AS NECESSARY.
3. ALL EROSION CONTROL INSTALLATION AND MAINTENANCE MEASURES SHALL MEET THE REQUIREMENTS OF THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
4. ANY PILE OF POTENTIALLY EROSIVE MATERIAL TEMPORARILY STOCKPILED ON THE SITE DURING THE CONSTRUCTION PROCESS SHALL BE LOCATED IN AN AREA AWAY FROM STORM DRAINAGE AND SHALL BE PROPERLY PROTECTED FROM EROSION BY A SURROUNDING SILT FENCE.
5. PERMANENT SEEDED AREAS FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH DETAIL AND SPECIFICATIONS ON THE DETAIL SHEET.
6. AREAS UNDERGOING CLEARING OR GRADING AND WHERE WORK IS DELAYED OR COMPLETED AND WILL NOT BE REDISTURBED FOR A PERIOD OF 14 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT VEGETATIVE COVER WITHIN 14 DAYS, WITH INITIATION OF STABILIZATION STARTING BY THE END OF THE NEXT BUSINESS DAY.
7. ON-SITE DUST CONTROL SHALL BE ACCOMPLISHED BY STANDARD METHODS OF LIGHTLY WATERING ALL EXPOSED SOIL AND RAPIDLY STABILIZING THE REGRADED AREAS WITH TOPSOIL, LOAM AND/OR SEEDING. OTHER METHODS OF DUST CONTROL MAY BE IN THE FORM OF MINIMIZING SOIL DISTURBANCE, APPLICATION OF WIND BREAKS, AND HYDROSEEDING.
8. THE CONSTRUCTION ENTRANCE IS AN ESSENTIAL ELEMENT FOR SEDIMENT CONTROL. ALL CONSTRUCTION VEHICLES LEAVING THE SITE SHALL UTILIZE THE CONSTRUCTION ENTRANCE TRACKING PAD TO MINIMIZE SEDIMENT TRANSPORT OFFSITE. ADDITIONAL MEASURES MAY BE REQUIRED A.O.B.E.. SUCH AS TRUCK WASH STATIONS AND PERIODIC STREET SWEEPING OUTSIDE OR IN FINISHED AREAS WITHIN THE SITE.
9. THE PROJECT ENGINEER SHALL BE NOTIFIED NO LESS THAN 48 HOURS PRIOR TO THE START OF ANY SITE WORK, AND BY SUCH NOTIFICATION, SHALL BE PROVIDED WITH THE NAME AND TELEPHONE NUMBER OF THE GENERAL CONTRACTOR RESPONSIBLE FOR SUCH WORK.
10. THE CITY AND/OR NYSDEC MAY INSPECT EROSION AND SEDIMENT CONTROL PRACTICES ON THE SITE DURING CONSTRUCTION AND RECOMMEND THAT THE CONTRACTOR INSTALL ADDITIONAL EROSION CONTROL MEASURES IF DEEMED NECESSARY TO PROTECT ANY UNDISTURBED AREAS OF THE SITE. ANY SUCH REQUESTS SHALL BE MADE DIRECTLY TO THE CONTRACTOR AND QUALIFIED PROFESSIONAL AND FOLLOWED UP WITH A WRITTEN NOTIFICATION TO THE DEVELOPER. IN ADDITION, THE CITY SHALL BE CONSULTED ON ANY SPECIAL ADDITIONS OR DELETIONS OF EROSION CONTROL MEASURES WARRANTED BY CHANGING FIELD CONDITIONS.
11. THE CONTRACTOR/OWNER SHALL MAINTAIN A RECORD OF ALL EROSION AND SEDIMENT CONTROL INSPECTION REPORTS AT THE SITE IN A LOG BOOK. THE SITE LOG BOOK SHALL BE MAINTAINED ON SITE AND BE MADE AVAILABLE TO THE PERMITTING AUTHORITY. THE OWNER/CONTRACTOR SHALL, ON A MONTHLY BASIS, POST AT THE SITE A SUMMARY OF THE SITE INSPECTION ACTIVITIES IN A PUBLICLY ACCESSIBLE LOCATION.
12. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT A DEWATERING PIT IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (AKA SUMP PIT) TO FILTER WATER FOR PUMPING TO AN ON-SITE FRAC TANK. GROUNDWATER WILL BE APPROPRIATELY CHARACTERIZED AND DISPOSED OF IN ACCORDANCE WITH THE RAWP.
13. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED PER THE APPROVAL OF THE TOWN AND QUALIFIED PROFESSIONAL. ANY SEDIMENT ACCUMULATED WILL BE STOCKPILED ON-SITE IN ACCORDANCE WITH THE RAWP. SOILS WILL BE APPROPRIATELY CHARACTERIZED FOR OFF-SITE DISPOSAL.
14. UPON COMPLETION OF CONSTRUCTION, THE PARCEL OWNER(S) SHALL BE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM. THE STORMWATER MANAGEMENT SYSTEM SHALL BE INSPECTED QUARTERLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT. THE OWNER(S) SHALL MAINTAIN A RECORD OF INSPECTION AND MAINTENANCE REPORTS AT THE SITE.

LEGEND:

- EXISTING PROPERTY LINE
- ADJOINING PROPERTY LINE
- EXISTING EASEMENT LINE
- EXISTING STREAM
- EXISTING WETLAND BOUNDARY
- 100' WETLAND BUFFER
- 250 EXISTING MAJOR CONTOUR
- 252 EXISTING MINOR CONTOUR
- EXISTING TREE LINE
- OHW EXISTING OVER HEAD WIRE
- EXISTING UTILITY POLE
- SS EXISTING SEWER SERVICE LINE
- S EXISTING SEWER LINE
- EXISTING SEWER MANHOLE
- EXISTING SEWER CLEAN OUT
- W EXISTING WATER LINE
- WS EXISTING WATER SERVICE LINE
- EXISTING WELL
- EXISTING HYDRANT
- WV EXISTING WATER SHUT OFF VALVE
- EXISTING WATER VALVE
- RL EXISTING STORM WATER LINE
- EXISTING ROOF LEADER
- EXISTING CATCH BASIN
- PROPOSED SILT FENCE
- LOD PROPOSED LIMIT OF DISTURBANCE
- PROPOSED CATCH BASIN INLET PROTECTION
- PROPOSED CONSTRUCTION ENTRANCE

EROSION & SEDIMENT CONTROL PLAN
SCALE: 1" = 40'

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

DRAWN BY: CMB				CHECKED BY: MAB			
REVISIONS:				REVISIONS:			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY
1	2/16/24	PER DEC COMMENTS	CMB				

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STATE OF NEW YORK MICHAEL A. BOSENKOFF 084466 LICENSED PROFESSIONAL ENGINEER
SEAL

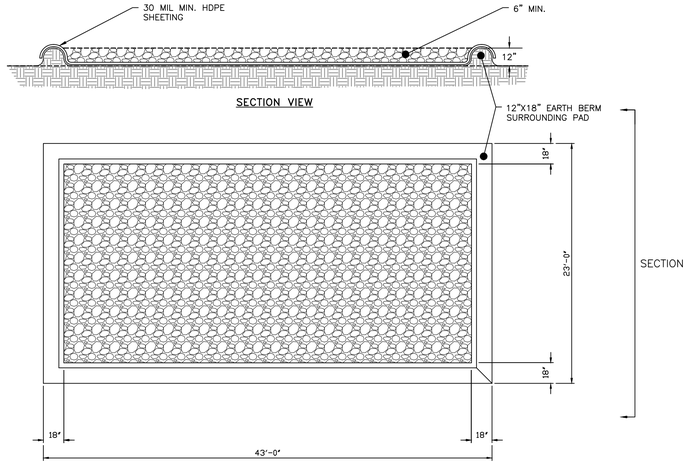
HUDSON LAND DESIGN
PROFESSIONAL ENGINEERING P.C.
174 MAIN ST., BEACON, NEW YORK 12508
13 CHAMBERS ST., NEWBURGH, NEW YORK 12550
PH: 845-440-6926

EROSION & SEDIMENT CONTROL PLAN

555 SOUTH AVE

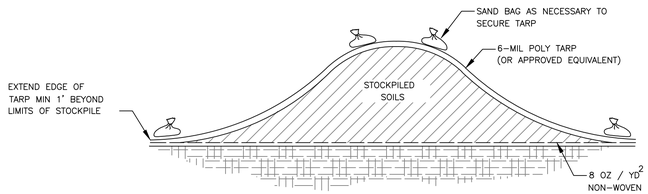
555 SOUTH AVENUE
CITY OF BEACON
DUTCHESS COUNTY, NEW YORK
TAX ID: 5954-16-751258

JOB #:	2016:027
DATE:	1/25/2024
SCALE:	1" = 40'
TITLE:	ESC-1
SHEET:	1 OF 2

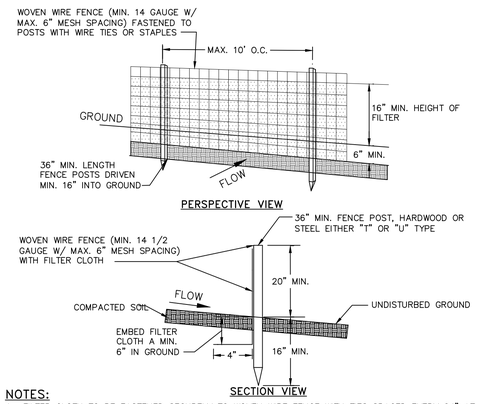


NOTE:
1. THE ENVIRONMENTAL CONTRACTOR PROPOSES TO ONLY HAUL CONTAMINATED SOIL ON DRY WEATHER DAYS. IN THIS CASE, CONTAMINATED SOIL WILL BE REMOVED FROM THE TRUCK TIRES BY DRY BRUSHING THE TIRES CLEAN OVER A 30-MIL PLASTIC BARRIER. THE BARRIER WILL BE CLEANED AT THE END OF EACH DAY.
2. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. THICKNESS - NOT LESS THAN SIX (6) INCHES.

TRUCK DECONTAMINATION PAD DETAIL
NOT TO SCALE

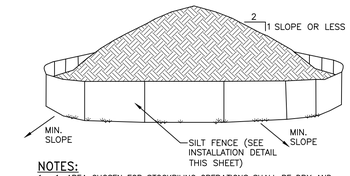


CONTAMINATED SOIL STOCKPILE DETAIL
NOT TO SCALE



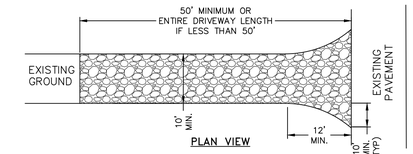
NOTES:
1. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.
3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUAL.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL
NOT TO SCALE



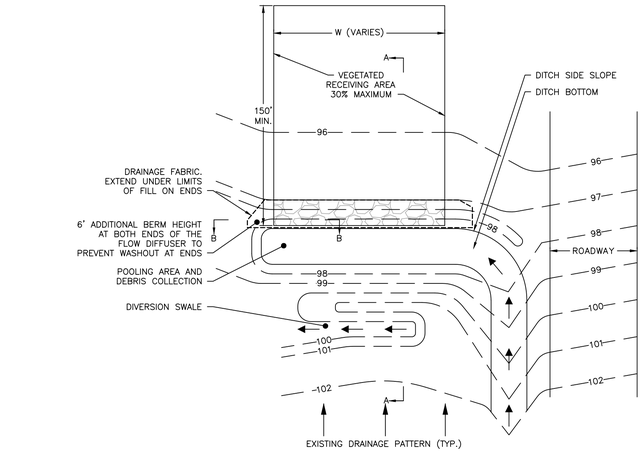
NOTES:
1. 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.

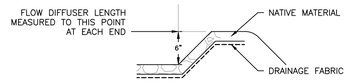
TEMPORARY SOIL STOCKPILE DETAIL
NOT TO SCALE



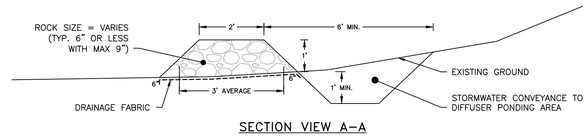
NOTES:
1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. THICKNESS - NOT LESS THAN SIX (6) INCHES.
3. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
4. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE





SECTION VIEW B-B



SECTION VIEW A-A

NOTE:
1. TYPICAL ELEVATIONS SHOWN HERE ARE TO ILLUSTRATE THE OPERATION OF THE FLOW DIFFUSER.

FLOW DIFFUSER DETAIL
NOT TO SCALE

DRAWN BY: CMB				CHECKED BY: MAB			
REVISIONS:				REVISIONS:			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY

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SEAL

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PH: 845-440-6926

EROSION & SEDIMENT CONTROL DETAILS

555 SOUTH AVE

555 SOUTH AVENUE
CITY OF BEACON
DUTCHESS COUNTY, NEW YORK
TAX ID: 5954-16-751258

JOB #:	2016:027
DATE:	1/25/2024
SCALE:	1" = 40'
TITLE:	CD-1
SHEET:	2 OF 2

ATTACHMENT E

Soil Importation Approval Letter, Soil Request for Reuse Form, Laboratory Results (December 2023)

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). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential 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? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 5,900 CY

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 would pass a size 10 sieve? no

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

Is this virgin material from a permitted mine or quarry? no

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:

Collected (7) composite sample to be analyzed for PFAs via Method 1633. Each composite sample consists of 3 discrete samples from different locations in the fill pile.

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.

Revised August 2014

SECTION 3 CONT'D - SAMPLING

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

Soils were previously approved by the NYSDEC in June 2014. Due to updated guidance the NYSDEC requested PFAs analysis. No PFAs exceedances were observed in the soil data (December 2023).

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:

Fairway Wallkill, LLC

Location where fill was obtained:

145 Golf Links Rd, Middletown, NY 10940

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

NYSDEC (June 2014)

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

Soil was imported from a residential development site in Middletown, New York, known as "Fairways", which had previously been approved by NYSDEC as a source of clean soil

Provide a list of supporting documentation included with this request:

Analytical Report, Data Summary Table, NYSDEC previous approval (June 9, 2014)

The information provided on this form is accurate and complete.

Signature

12/14/2023

Date

Caroline Clark

Print Name

Gallagher Bassett

Firm

Revised August 2014

Table 1: PFAS in Soils

BCP Site ID: C314117

GBTS Project: 22003-0094

GALLAGHER BASSETT | TECHNICAL SERVICES

		Sample	SP-01 COMP		SP-02 COMP		SP-03 COMP		SP-04 COMP		SP-05 COMP		SP-06 COMP		SP-07 COMP	
U= Not Detected ≥ value		Date	2023-12-05		2023-12-05		2023-12-05		2023-12-05		2023-12-05		2023-12-05		2023-12-05	
Data in µg/Kg (ppb)		Dilution	1		1		1		1		1		1		1	
PFAS	**UU**	**RRU**	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*	*Result*	*Qualifier*
11CL-PF3OUdS	NA	NA	0.0003	*U*	0.0003	*U*	0.0003	*U*	0.0004	*U*	0.0004	*U*	0.0004	*U*	0.0004	*U*
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTS)	NA	NA	0.0008	*U*	0.0008	*U*	0.0008	*U*	0.001	*U*	0.0009	*U*	0.0009	*U*	0.0009	*U*
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS)	NA	NA	0.0007	*U*	0.0006	*U*	0.0006	*U*	0.0008	*U*	0.0007	*U*	0.0007	*U*	0.0007	*U*
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS)	NA	NA	0.0007	*U*	0.0006	*U*	0.0006	*U*	0.0008	*U*	0.0007	*U*	0.0007	*U*	0.0007	*U*
3-perfluoroheptyl propanoic acid (FHpPA)	NA	NA	0.0017	*U*	0.0016	*U*	0.0016	*U*	0.0019	*U*	0.0017	*U*	0.0018	*U*	0.0018	*U*
3-perfluoropentyl propanoic acid (FPePA)	NA	NA	0.0023	*U*	0.0023	*U*	0.0023	*U*	0.0027	*U*	0.0024	*U*	0.0025	*U*	0.0025	*U*
3-perfluoropropyl propanoic acid (FPrPA)	NA	NA	0.001	*J*	0.0009	*J*	0.0007	*U*	0.0008	*U*	0.0007	*U*	0.0007	*U*	0.0008	*U*
9CL-PF3ONS	NA	NA	0.0003	*U*	0.0003	*U*	0.0003	*U*	0.0003	*U*	0.0003	*U*	0.0003	*U*	0.0003	*U*
ADONA	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
HFPO-DA (Gen-X)	NA	NA	0.0007	*U*	0.0007	*U*	0.0007	*U*	0.0008	*U*	0.0007	*U*	0.0007	*U*	0.0007	*U*
N-EtFOSA	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0003	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
N-EtFOSAA	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
N-EtFOSE	NA	NA	0.0008	*U*	0.0008	*U*	0.0008	*U*	0.0009	*U*	0.0008	*U*	0.0008	*U*	0.0008	*U*
N-MeFOSA	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
N-MeFOSAA	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
N-MeFOSE	NA	NA	0.0007	*U*	0.0007	*U*	0.0007	*U*	0.0008	*U*	0.0007	*U*	0.0007	*U*	0.0007	*U*
perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluoro-1-decanesulfonic acid (PFDS)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluoro-1-heptanesulfonic acid (PFHpS)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluoro-1-nonanesulfonic acid (PFNS)	NA	NA	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0002	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*
perfluoro-1-octanesulfonamide (FOSA)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluoro-1-pentanesulfonate (PFPeS)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluoro-4-oxapentanoic acid (PFMPA)	NA	NA	0.0004	*J*	0.0004	*J*	0.0005		0.0002	*J*	8E-05	*J*	0.0001	*J*	0.0002	*J*
perfluoro-5-oxahexanoic acid (PFMBA)	NA	NA	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*
perfluorobutanesulfonic acid (PFBS)	NA	NA	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*
perfluorodecanoic acid (PFDA)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluorododecanesulfonic acid (PFDoS)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluorododecanoic acid (PFDoA)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluoroheptanoic acid (PFHpA)	NA	NA	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*
perfluorohexanesulfonic acid (PFHxS)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluorohexanoic acid (PFHxA)	NA	NA	6E-05	*U*	6E-05	*U*	6E-05	*U*	7E-05	*U*	6E-05	*U*	6E-05	*U*	6E-05	*U*
perfluoro-n-butanoic acid (PFBA)	NA	NA	0.0011		0.0007	*J*	0.0019		0.0012		0.0005	*J*	0.001		0.0012	
perfluorononanoic acid (PFNA)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluorooctanesulfonic acid (PFOS)	0.88	44	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluorooctanoic acid (PFOA)	0.66	33	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*
perfluoropentanoic acid (PFPeA)	NA	NA	0.0004	*J*	0.0002	*J*	0.0002	*J*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*
perfluorotetradecanoic acid (PFTA)	NA	NA	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*
perfluorotridecanoic acid (PFTrDA)	NA	NA	0.0001	*U*	0.0001	*U*	0.0001	*U*	0.0002	*U*	0.0001	*U*	0.0001	*U*	0.0001	*U*
perfluoroundecanoic acid (PFUnA)	NA	NA	0.0002	*U*	0.0002	*U*	0.0002	*U*	0.0003	*U*	0.0002	*U*	0.0002	*U*	0.0002	*U*

Analyte Detected

Analyte Above UU Guidance/SCO

Analyte Above RRU Guidance/SCO

Notes: SCOs/guidance values based on NYSDEC Part 375-6.8 and current NYSDEC guidance NA = not available

Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 2: PFAS in Groundwater

BCP Site ID: C314117

GBTS Project: 22003-0094

	Sample ID	FB-20231205	
Data in ng/L (parts per trillion, ppt)	Sample Date	2023-12-05	
U= Not Detected ≥ value	Dilution	1	
PFAS	**Guidance**	*Result*	*Qualifier*
11CL-PF3OUdS	NA	0.00133	*U*
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTS)	NA	0.00198	*U*
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS)	NA	0.00173	*U*
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS)	NA	0.00102	*U*
3-perfluoroheptyl propanoic acid (FHpPA)	NA	0.00915	*U*
3-perfluoropentyl propanoic acid (FPePA)	NA	0.00708	*U*
3-perfluoropropyl propanoic acid (FPrPA)	NA	0.00196	*U*
9CL-PF3ONS	NA	0.00117	*J*
ADONA	NA	0.00051	*U*
HFPO-DA (Gen-X)	NA	0.00312	*U*
N-EtFOSA	NA	0.00174	*U*
N-EtFOSAA	NA	0.001	*U*
N-EtFOSE	NA	0.00386	*U*
N-MeFOSA	NA	0.00153	*U*
N-MeFOSAA	NA	0.00076	*U*
N-MeFOSE	NA	0.00386	*U*
perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NA	0.00048	*U*
perfluoro-1-decanesulfonic acid (PFDS)	NA	0.00128	*U*
perfluoro-1-heptanesulfonic acid (PFHpS)	NA	0.00088	*U*
perfluoro-1-nonanesulfonic acid (PFNS)	NA	0.00083	*U*
perfluoro-1-octanesulfonamide (FOSA)	NA	0.00085	*U*
perfluoro-1-pentanesulfonate (PFPeS)	NA	0.00073	*U*
perfluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	0.00207	*U*
perfluoro-4-oxapentanoic acid (PFMPA)	NA	0.00031	*J*
perfluoro-5-oxahexanoic acid (PFMBA)	NA	0.00102	*J*
perfluorobutanesulfonic acid (PFBS)	NA	0.00054	*J*
perfluorodecanoic acid (PFDA)	NA	0.00073	*U*
perfluorododecanesulfonic acid (PFDoS)	NA	0.0009	*U*
perfluorododecanoic acid (PFDoA)	NA	0.00085	*U*
perfluoroheptanoic acid (PFHpA)	NA	0.00069	*U*
perfluorohexanesulfonic acid (PFHxS)	NA	0.00066	*U*
perfluorohexanoic acid (PFHxA)	NA	0.00085	*J*
perfluoro-n-butanoic acid (PFBA)	NA	0.00032	*U*
perfluorononanoic acid (PFNA)	NA	0.0005	*U*
perfluorooctanesulfonic acid (PFOS)	2.7	0.00079	*U*
perfluorooctanoic acid (PFOA)	6.7	0.00041	*U*
perfluoropentanoic acid (PFPeA)	NA	0.00022	*U*
perfluorotetradecanoic acid (PFTA)	NA	0.00067	*U*
perfluorotridecanoic acid (PFTrDA)	NA	0.00072	*U*
perfluoroundecanoic acid (PFUnA)	NA	0.00109	*U*
TOTAL PFAS		0.00389	

Analyte Detected

Analyte ≥ NYSDEC Guidance/AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available

Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Technical Report

prepared for:

Gallagher Bassett - Poughkeepsie, NY
22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Caroline Clark

Report Date: 12/13/2023
Client Project ID: 22003-0094
York Project (SDG) No.: 23L0283

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
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Report Date: 12/13/2023
Client Project ID: 22003-0094
York Project (SDG) No.: 23L0283

Gallagher Bassett - Poughkeepsie, NY
22 IBM Road, Suite 101
Poughkeepsie NY, 12601
Attention: Caroline Clark

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 December 06, 2023 and listed below. The project was identified as your project: **22003-0094**.

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
23L0283-01	SP-01 comp	Soil	12/05/2023	12/06/2023
23L0283-02	SP-02 comp	Soil	12/05/2023	12/06/2023
23L0283-03	SP-03 comp	Soil	12/05/2023	12/06/2023
23L0283-04	SP-04 comp	Soil	12/05/2023	12/06/2023
23L0283-05	SP-05 comp	Soil	12/05/2023	12/06/2023
23L0283-06	SP-06 comp	Soil	12/05/2023	12/06/2023
23L0283-07	SP-07 comp	Soil	12/05/2023	12/06/2023
23L0283-08	FB-20231205	Water	12/05/2023	12/06/2023

General Notes for York Project (SDG) No.: 23L0283

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; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 12/13/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **SP-01 comp** **York Sample ID:** **23L0283-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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	0.123	0.195	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0585	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.116	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.198	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.190	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.184	0.205	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.209	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.211	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.219	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.180	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.138	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.114	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.163	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.214	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**0.405**	J	ug/kg dry	0.120	0.442	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.161	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.171	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.211	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.657	0.839	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.834	0.848	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**1.13**		ug/kg dry	0.120	0.883	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.153	0.393	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ

Sample Information

Client Sample ID: **SP-01 comp** **York Sample ID:** **23L0283-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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	0.213	0.442	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
377-73-1	*** Perfluoro-4-oxapentanoic acid (PFMPA)**	**0.378**	J	ug/kg dry	0.0685	0.442	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.106	0.442	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.173	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.657	0.828	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.671	0.883	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.343	0.835	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.272	0.826	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.192	0.835	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.187	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.137	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:26	ESJ
356-02-5	*** 3-Perfluoropropyl propanoic acid (FPrPA)**	**1.04**	J	ug/kg dry	0.700	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.32	5.52	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.66	5.52	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.675	2.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.199	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.770	2.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.219	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:26	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*19.5 %*	*25-150*
Surrogate: M5PFHxA	*29.8 %*	*25-150*
Surrogate: M4PFHpA	*98.7 %*	*25-150*
Surrogate: M3PFHxS	*124 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*125 %*	*25-150*
Surrogate: M6PFDA	*126 %*	*25-150*

Sample Information

Client Sample ID: **SP-01 comp** **York Sample ID:** **23L0283-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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	*130 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*109 %*			*25-150*						
	Surrogate: M2PFTeDA	*93.1 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.26 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*128 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.61 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*101 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*117 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*114 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*123 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*127 %*			*25-200*						
	Surrogate: M9PFNA	*123 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*39.3 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*74.8 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*101 %*			*25-150*						
	Surrogate: M3HFPO-DA	*26.6 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*55.3 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*67.0 %*			*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**	**90.6**		%	0.100	1	SM 2540G	12/07/2023 12:34	12/07/2023 15:34	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SP-02 comp** **York Sample ID:** **23L0283-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

PFAS, EPA 1633 Target List

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

Sample Information

Client Sample ID: **SP-02 comp** **York Sample ID:** **23L0283-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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	0.120	0.192	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0574	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.114	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.194	0.198	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.186	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.181	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.205	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.207	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.214	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.176	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.135	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.112	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.160	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.210	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**0.150**	J	ug/kg dry	0.118	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.158	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.168	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.644	0.823	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.817	0.832	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.721**	J	ug/kg dry	0.118	0.866	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.150	0.385	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.209	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
377-73-1	*** Perfluoro-4-oxapentanoic acid (PFMPA)**	**0.383**	J	ug/kg dry	0.0671	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ

Sample Information

Client Sample ID: SP-02 comp

York Sample ID: 23L0283-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.104	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.170	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.644	0.812	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.658	0.866	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.337	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.266	0.810	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.188	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.183	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.134	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 05:43	ESJ
356-02-5	*** 3-Perfluoropropyl propanoic acid (FPrPA)**	**0.865**	J	ug/kg dry	0.686	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.27	5.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.62	5.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.662	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.195	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.755	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.214	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 05:43	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*21.6 %*	*25-150*
Surrogate: M5PFHxA	*35.5 %*	*25-150*
Surrogate: M4PFHpA	*108 %*	*25-150*
Surrogate: M3PFHxS	*131 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*126 %*	*25-150*
Surrogate: M6PFDA	*117 %*	*25-150*
Surrogate: M7PFUdA	*122 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*112 %*	*25-150*
Surrogate: M2PFTeDA	*81.8 %*	*10-150*

Sample Information

Client Sample ID: SP-02 comp **York Sample ID:** 23L0283-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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-[13C4]butanoic acid (MPFBA)	*1.57 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*110 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.69 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*91.0 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*111 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*113 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*107 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*118 %*			*25-200*						
	Surrogate: M9PFNA	*124 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*48.4 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*70.6 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*102 %*			*25-150*						
	Surrogate: M3HFPO-DA	*30.4 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*46.1 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*54.5 %*			*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**	**91.3**		%	0.100	1	SM 2540G	12/07/2023 12:34	12/07/2023 15:34	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SP-03 comp **York Sample ID:** 23L0283-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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	0.120	0.192	1	EPA 1633 Draft 3	12/09/2023 12:55	12/11/2023 06:31	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			

Sample Information

Client Sample ID: **SP-03 comp** **York Sample ID:** **23L0283-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0575	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.114	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.194	0.199	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.187	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.181	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.205	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.207	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.215	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.177	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.136	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.112	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.161	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.211	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**0.227**	J	ug/kg dry	0.118	0.434	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.158	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.168	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.207	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.646	0.825	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.820	0.834	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**1.93**		ug/kg dry	0.118	0.868	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.151	0.386	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.210	0.434	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
377-73-1	*** Perfluoro-4-oxapentanoic acid (PFMPA)**	**0.489**		ug/kg dry	0.0673	0.434	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ

Sample Information

Client Sample ID: SP-03 comp

York Sample ID: 23L0283-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.104	0.434	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.170	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.646	0.814	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.660	0.868	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.338	0.821	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.267	0.812	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.189	0.821	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.183	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.135	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:31	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.688	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.28	5.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.63	5.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.663	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.195	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.757	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.215	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:31	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*23.7 %*	*25-150*
Surrogate: M5PFHxA	*34.9 %*	*25-150*
Surrogate: M4PFHpA	*101 %*	*25-150*
Surrogate: M3PFHxS	*128 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*115 %*	*25-150*
Surrogate: M6PFDA	*123 %*	*25-150*
Surrogate: M7PFUdA	*111 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*112 %*	*25-150*
Surrogate: M2PFTeDA	*80.4 %*	*10-150*

Sample Information

Client Sample ID: SP-03 comp **York Sample ID:** 23L0283-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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-[13C4]butanoic acid (MPFBA)	*1.14 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*129 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.77 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*106 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*114 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*119 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*111 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*116 %*			*25-200*						
	Surrogate: M9PFNA	*119 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*45.6 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*81.1 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*138 %*			*25-150*						
	Surrogate: M3HFPO-DA	*30.3 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*62.9 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*69.6 %*			*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**	**91.2**		%	0.100	1	SM 2540G	12/07/2023 12:34	12/07/2023 15:34	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SP-04 comp **York Sample ID:** 23L0283-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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	0.141	0.225	1	EPA 1633 Draft 3	12/09/2023 12:55	12/11/2023 06:47	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			

Sample Information

Client Sample ID: **SP-04 comp** **York Sample ID:** **23L0283-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0674	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.134	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.228	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.219	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.212	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.240	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.243	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.252	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.207	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.159	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.131	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.188	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.247	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.139	0.509	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.186	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.197	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.243	0.246	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.757	0.967	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.960	0.977	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**1.20**		ug/kg dry	0.139	1.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.177	0.453	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.246	0.509	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
377-73-1	*** Perfluoro-4-oxapentanoic acid (PFMPA)**	**0.162**	J	ug/kg dry	0.0789	0.509	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ

Sample Information

Client Sample ID: SP-04 comp

York Sample ID: 23L0283-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.122	0.509	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.200	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.757	0.954	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.773	1.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.396	0.962	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.313	0.952	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.221	0.962	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.215	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.158	0.244	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 06:47	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.807	1.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.67	6.36	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.91	6.36	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.777	2.54	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.229	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.887	2.54	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.252	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 06:47	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*47.6 %*	*25-150*
Surrogate: M5PFHxA	*59.6 %*	*25-150*
Surrogate: M4PFHpA	*110 %*	*25-150*
Surrogate: M3PFHxS	*130 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*112 %*	*25-150*
Surrogate: M6PFDA	*128 %*	*25-150*
Surrogate: M7PFUdA	*128 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*107 %*	*25-150*
Surrogate: M2PFTeDA	*100 %*	*10-150*

Sample Information

Client Sample ID: SP-04 comp **York Sample ID:** 23L0283-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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-[13C4]butanoic acid (MPFBA)	*1.21 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*123 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.54 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*106 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*114 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*114 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*111 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*123 %*			*25-200*						
	Surrogate: M9PFNA	*125 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*72.3 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*91.9 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*116 %*			*25-150*						
	Surrogate: M3HFPO-DA	*59.5 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*69.1 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*72.9 %*			*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**	**78.6**		%	0.100	1	SM 2540G	12/07/2023 12:34	12/07/2023 15:34	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SP-05 comp **York Sample ID:** 23L0283-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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	0.129	0.206	1	EPA 1633 Draft 3	12/09/2023 12:55	12/11/2023 07:03	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			

Sample Information

Client Sample ID: **SP-05 comp** **York Sample ID:** **23L0283-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0616	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.122	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.208	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.200	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.194	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.220	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.222	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.230	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.189	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.145	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.120	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.172	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.226	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.127	0.465	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.170	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.180	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.222	0.224	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.692	0.884	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.878	0.893	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.540**	J	ug/kg dry	0.127	0.930	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.162	0.414	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.224	0.465	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
377-73-1	*** Perfluoro-4-oxapentanoic acid (PFMPA)**	**0.0830**	J	ug/kg dry	0.0721	0.465	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ

Sample Information

Client Sample ID: SP-05 comp

York Sample ID: 23L0283-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.112	0.465	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.183	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.692	0.872	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.707	0.930	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.362	0.879	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.286	0.870	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.202	0.879	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.196	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.144	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:03	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.737	1.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.44	5.81	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.74	5.81	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.710	2.33	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.209	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.810	2.33	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.230	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:03	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*51.1 %*	*25-150*
Surrogate: M5PFHxA	*79.2 %*	*25-150*
Surrogate: M4PFHpA	*133 %*	*25-150*
Surrogate: M3PFHxS	*122 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*120 %*	*25-150*
Surrogate: M6PFDA	*127 %*	*25-150*
Surrogate: M7PFUdA	*119 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*119 %*	*25-150*
Surrogate: M2PFTeDA	*88.7 %*	*10-150*

Sample Information

Client Sample ID: SP-05 comp **York Sample ID:** 23L0283-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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-[13C4]butanoic acid (MPFBA)	*2.51 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*135 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.69 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*110 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*118 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*121 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*119 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*160 %*			*25-200*						
	Surrogate: M9PFNA	*119 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*76.5 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*78.0 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*93.0 %*			*25-150*						
	Surrogate: M3HFPO-DA	*72.7 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*72.2 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*75.3 %*			*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**	**85.5**		%	0.100	1	SM 2540G	12/07/2023 12:34	12/07/2023 15:34	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SP-06 comp **York Sample ID:** 23L0283-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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	0.131	0.209	1	EPA 1633 Draft 3	12/09/2023 12:55	12/11/2023 07:19	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			

Sample Information

Client Sample ID: **SP-06 comp** **York Sample ID:** **23L0283-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0626	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.124	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.212	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.203	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.197	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.223	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.226	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.234	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.193	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.148	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.122	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.175	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.229	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.129	0.473	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.173	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.183	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.226	0.228	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.703	0.898	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.892	0.908	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**1.01**		ug/kg dry	0.129	0.946	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.164	0.421	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.228	0.473	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
377-73-1	*** Perfluoro-4-oxapentanoic acid (PFMPA)**	**0.124**	J	ug/kg dry	0.0733	0.473	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ

Sample Information

Client Sample ID: SP-06 comp

York Sample ID: 23L0283-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.113	0.473	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.186	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.703	0.887	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.719	0.946	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.368	0.894	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.291	0.884	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.206	0.894	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.200	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.147	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:19	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.749	1.18	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.48	5.91	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.77	5.91	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.722	2.36	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.213	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.824	2.36	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.234	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:19	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*28.0 %*	*25-150*
Surrogate: M5PFHxA	*37.9 %*	*25-150*
Surrogate: M4PFHpA	*100 %*	*25-150*
Surrogate: M3PFHxS	*127 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*105 %*	*25-150*
Surrogate: M6PFDA	*121 %*	*25-150*
Surrogate: M7PFUdA	*121 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*106 %*	*25-150*
Surrogate: M2PFTeDA	*82.2 %*	*10-150*

Sample Information

Client Sample ID: **SP-06 comp** **York Sample ID:** **23L0283-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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-[13C4]butanoic acid (MPFBA)	*1.19 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*134 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.09 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*90.6 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*114 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*118 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*106 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*145 %*			*25-200*						
	Surrogate: M9PFNA	*116 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*45.0 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*77.9 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*106 %*			*25-150*						
	Surrogate: M3HFPO-DA	*33.3 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*59.0 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*64.2 %*			*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**	**83.1**		%	0.100	1	SM 2540G	12/07/2023 12:34	12/07/2023 15:34	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SP-07 comp** **York Sample ID:** **23L0283-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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	0.132	0.211	1	EPA 1633 Draft 3	12/09/2023 12:55	12/11/2023 07:36	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			

Sample Information

Client Sample ID: **SP-07 comp** **York Sample ID:** **23L0283-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0632	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.125	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.213	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.205	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.199	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.225	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.228	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.236	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.194	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.149	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.123	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.176	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.231	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.130	0.477	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.174	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.185	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.228	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.710	0.906	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.900	0.916	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**1.18**		ug/kg dry	0.130	0.954	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.166	0.425	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.230	0.477	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
377-73-1	*** Perfluoro-4-oxapentanoic acid (PFMPA)**	**0.154**	J	ug/kg dry	0.0739	0.477	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ

Sample Information

Client Sample ID: SP-07 comp

York Sample ID: 23L0283-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.114	0.477	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.187	0.224	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.710	0.894	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.725	0.954	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.371	0.902	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.293	0.892	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.207	0.902	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.202	0.231	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.148	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	12/09/2023 12:55	12/11/2023 07:36	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.756	1.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.50	5.96	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.79	5.96	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.729	2.39	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.215	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.831	2.39	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.236	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	12/09/2023 12:55	12/11/2023 07:36	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*22.6 %*	*25-150*
Surrogate: M5PFHxA	*35.0 %*	*25-150*
Surrogate: M4PFHpA	*104 %*	*25-150*
Surrogate: M3PFHxS	*115 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*117 %*	*25-150*
Surrogate: M6PFDA	*139 %*	*25-150*
Surrogate: M7PFUdA	*129 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*130 %*	*25-150*
Surrogate: M2PFTeDA	*97.8 %*	*10-150*

Sample Information

Client Sample ID: SP-07 comp **York Sample ID:** 23L0283-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Soil	December 5, 2023 3:00 pm	12/06/2023

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-[13C4]butanoic acid (MPFBA)	*0.891 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*118 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.48 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*101 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*113 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*116 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*102 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*113 %*			*25-200*						
	Surrogate: M9PFNA	*123 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*40.9 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*81.1 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*98.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*34.5 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*60.2 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*67.1 %*			*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**	**83.9**		%	0.100	1	SM 2540G	12/07/2023 12:34	12/07/2023 15:34	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: FB-20231205 **York Sample ID:** 23L0283-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Water	December 5, 2023 3:00 pm	12/06/2023

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)**	**0.535**	J	ng/L	0.454	1.71	1	EPA 1633 Draft 3	12/10/2023 16:52	12/12/2023 18:48	KT
								Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: **FB-20231205** **York Sample ID:** **23L0283-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Water	December 5, 2023 3:00 pm	12/06/2023

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
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.853**	J	ng/L	0.338	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.686	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.657	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.406	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.792	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.502	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.725	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.09	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.850	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.715	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.667	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
2355-31-9	N-MeFOSAA	ND		ng/L	0.763	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
2991-50-6	N-EtFOSAA	ND		ng/L	0.995	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.222	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.850	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.879	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.28	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
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	12/10/2023 16:52	12/12/2023 18:48	KT
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.98	7.42	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.319	7.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.483	3.44	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/10/2023 16:52	12/12/2023 18:48	KT
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.07	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/10/2023 16:52	12/12/2023 18:48	KT
377-73-1	**Perfluoro-4-oxapentanoic acid (PFMPA)**	**0.309**	J	ng/L	0.242	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/10/2023 16:52	12/12/2023 18:48	KT

Sample Information

Client Sample ID: FB-20231205 **York Sample ID:** 23L0283-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Water	December 5, 2023 3:00 pm	12/06/2023

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
863090-89-5	**Perfluoro-5-oxahexanoic acid (PFMBA)**	**1.02**	J	ng/L	0.358	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/10/2023 16:52	12/12/2023 18:48	KT
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.734	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.73	7.25	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.12	7.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.33	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
756426-58-1	**9CL-PF3ONS**	**1.17**	J	ng/L	0.676	7.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
919005-14-4	ADONA	ND		ng/L	0.512	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.899	1.87	1	EPA 1633 Draft 3 Certifications:	12/10/2023 16:52	12/12/2023 18:48	KT
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.831	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/10/2023 16:52	12/12/2023 18:48	KT
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.96	4.83	1	EPA 1633 Draft 3 Certifications:	12/10/2023 16:52	12/12/2023 18:48	KT
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.08	24.2	1	EPA 1633 Draft 3 Certifications:	12/10/2023 16:52	12/12/2023 18:48	KT
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.15	24.2	1	EPA 1633 Draft 3 Certifications:	12/10/2023 16:52	12/12/2023 18:48	KT
24448-09-7	* N-MeFOSE	ND		ng/L	3.86	19.3	1	EPA 1633 Draft 3 Certifications:	12/10/2023 16:52	12/12/2023 18:48	KT
31506-32-8	* N-MeFOSA	ND		ng/L	1.53	1.93	1	EPA 1633 Draft 3 Certifications:	12/10/2023 16:52	12/12/2023 18:48	KT
1691-99-2	* N-EtFOSE	ND		ng/L	3.86	19.3	1	EPA 1633 Draft 3 Certifications:	12/10/2023 16:52	12/12/2023 18:48	KT
4151-50-2	* N-EtFOSA	ND		ng/L	1.74	1.93	1	EPA 1633 Draft 3 Certifications:	12/10/2023 16:52	12/12/2023 18:48	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*2.60 %*	*25-150*
Surrogate: M5PFHxA	*4.26 %*	*25-150*
Surrogate: M4PFHpA	*24.2 %*	*25-150*
Surrogate: M3PFHxS	*35.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*32.3 %*	*25-150*
Surrogate: M6PFDA	*42.7 %*	*25-150*
Surrogate: M7PFUdA	*54.8 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*62.5 %*	*25-150*
Surrogate: M2PFTeDA	*61.4 %*	*10-150*

Sample Information

Client Sample ID: **FB-20231205** **York Sample ID:** **23L0283-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0283	22003-0094	Water	December 5, 2023 3:00 pm	12/06/2023

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-[13C4]butanoic acid (MPFBA)	*0.603 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*43.4 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.258 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*39.0 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*43.7 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*56.0 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*27.2 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*35.8 %*			*25-200*						
	Surrogate: M9PFNA	*38.3 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*5.02 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*51.6 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*54.5 %*			*25-150*						
	Surrogate: M3HFPO-DA	*3.45 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*59.0 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*59.5 %*			*25-150*						

Analytical Batch Summary

Batch ID: BL30377 **Preparation Method:** % Solids Prep **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
23L0283-01	SP-01 comp	12/07/23
23L0283-02	SP-02 comp	12/07/23
23L0283-03	SP-03 comp	12/07/23
23L0283-04	SP-04 comp	12/07/23
23L0283-05	SP-05 comp	12/07/23
23L0283-06	SP-06 comp	12/07/23
23L0283-07	SP-07 comp	12/07/23
BL30377-DUP1	Duplicate	12/07/23

Batch ID: BL30615 **Preparation Method:** EPA 1633 Prep **Prepared By:** J D

YORK Sample ID	Client Sample ID	Preparation Date
23L0283-01	SP-01 comp	12/09/23
23L0283-02	SP-02 comp	12/09/23
23L0283-03	SP-03 comp	12/09/23
23L0283-04	SP-04 comp	12/09/23
23L0283-05	SP-05 comp	12/09/23
23L0283-06	SP-06 comp	12/09/23
23L0283-07	SP-07 comp	12/09/23
BL30615-BLK1	Blank	12/09/23
BL30615-BS1	LCS	12/09/23
BL30615-BS2	LCS	12/09/23
BL30615-MS1	Matrix Spike	12/09/23
BL30615-MSD1	Matrix Spike Dup	12/09/23

Batch ID: BL30619 **Preparation Method:** EPA 1633 Prep **Prepared By:** AM

YORK Sample ID	Client Sample ID	Preparation Date
23L0283-08	FB-20231205	12/10/23
BL30619-BLK1	Blank	12/10/23
BL30619-BS1	LCS	12/10/23
BL30619-BS2	LCS	12/10/23
BL30619-DUP1	Duplicate	12/10/23

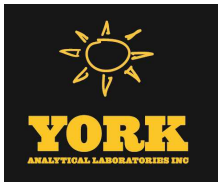
PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30615 - EPA 1633 Prep											
Blank (BL30615-BLK1)											Prepared: 12/09/2023 Analyzed: 12/11/2023
Perfluorobutanesulfonic acid (PFBS)	ND	0.174	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.197	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.197	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.180	"								
Perfluorooctanoic acid (PFOA)	ND	0.197	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.183	"								
Perfluorononanoic acid (PFNA)	ND	0.197	"								
Perfluorodecanoic acid (PFDA)	ND	0.197	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.197	"								
Perfluorododecanoic acid (PFDoA)	ND	0.197	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.197	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.197	"								
N-MeFOSAA	ND	0.197	"								
N-EtFOSAA	ND	0.197	"								
Perfluoropentanoic acid (PFPeA)	ND	0.394	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.197	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.197	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.190	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.748	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.756	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.787	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.350	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.394	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.394	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.394	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.185	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.738	"								
HFPO-DA (Gen-X)	ND	0.787	"								
11CL-PF3OUdS	ND	0.744	"								
9CL-PF3ONS	ND	0.736	"								
ADONA	ND	0.744	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.191	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.189	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.984	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.92	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.92	"								
N-MeFOSE	ND	1.97	"								
N-MeFOSA	ND	0.197	"								
N-EtFOSE	ND	1.97	"								
N-EtFOSA	ND	0.197	"								
Surrogate: M3PFBS	*2.35*		*"*	*1.91*		*123*	*25-150*				
Surrogate: M5PFHxA	*2.50*		*"*	*2.05*		*122*	*25-150*				
Surrogate: M4PFHpA	*2.51*		*"*	*2.05*		*122*	*25-150*				
Surrogate: M3PFHxS	*2.15*		*"*	*1.94*		*111*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.23*		*"*	*2.05*		*109*	*25-150*				
Surrogate: M6PFDA	*1.04*		*"*	*1.02*		*101*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30615 - EPA 1633 Prep											
Blank (BL30615-BLK1)								Prepared: 12/09/2023 Analyzed: 12/11/2023			
Surrogate: M7PFUdA	*0.982*		*ug/kg wet*	*1.02*		*95.9*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.917*		*"*	*1.02*		*89.6*	*25-150*				
Surrogate: M2PFTeDA	*0.735*		*"*	*1.02*		*71.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.87*		*"*	*8.22*		*120*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.94*		*"*	*1.96*		*98.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.00*		*"*	*4.10*		*122*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.63*		*"*	*2.05*		*79.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.31*		*"*	*4.10*		*80.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.23*		*"*	*4.10*		*78.9*	*25-150*				
Surrogate: M2-6:2 FTS	*3.90*		*"*	*3.90*		*100*	*25-200*				
Surrogate: M2-8:2 FTS	*3.20*		*"*	*3.94*		*81.3*	*25-200*				
Surrogate: M9PFNA	*0.00*		*"*	*1.02*			*25-150*				
Surrogate: M2-4:2 FTS	*4.48*		*"*	*3.85*		*116*	*25-150*				
Surrogate: d-N-MeFOSA	*1.45*		*"*	*2.05*		*70.9*	*25-150*				
Surrogate: d-N-EtFOSA	*1.70*		*"*	*2.05*		*82.9*	*25-150*				
Surrogate: M3HFPO-DA	*10.4*		*"*	*8.22*		*127*	*25-150*				
Surrogate: d9-N-EtFOSE	*9.36*		*"*	*20.5*		*45.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*12.5*		*"*	*20.5*		*60.8*	*25-150*				
LCS (BL30615-BS1)								Prepared: 12/09/2023 Analyzed: 12/11/2023			
Perfluorobutanesulfonic acid (PFBS)	3.19	0.176	ug/kg wet	3.53		90.6	50-150				
Perfluorohexanoic acid (PFHxA)	3.27	0.199	"	3.98		82.1	50-150				
Perfluoroheptanoic acid (PFHpA)	3.42	0.199	"	3.98		85.9	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.14	0.182	"	3.65		86.1	50-150				
Perfluorooctanoic acid (PFOA)	3.61	0.199	"	3.98		90.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.76	0.185	"	3.71		101	50-150				
Perfluorononanoic acid (PFNA)	4.15	0.199	"	3.98		104	50-150				
Perfluorodecanoic acid (PFDA)	3.79	0.199	"	3.98		95.0	50-150				
Perfluoroundecanoic acid (PFUnA)	3.79	0.199	"	3.98		95.0	50-150				
Perfluorododecanoic acid (PFDoA)	3.71	0.199	"	3.98		93.0	50-150				
Perfluorotridecanoic acid (PFTrDA)	3.60	0.199	"	3.98		90.5	50-150				
Perfluorotetradecanoic acid (PFTA)	3.30	0.199	"	3.98		82.7	50-150				
N-MeFOSAA	3.75	0.199	"	3.98		94.2	50-150				
N-EtFOSAA	3.41	0.199	"	3.98		85.5	50-150				
Perfluoropentanoic acid (PFPeA)	7.29	0.398	"	7.97		91.5	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.30	0.199	"	3.98		108	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.90	0.199	"	3.80		102	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.14	0.192	"	3.84		81.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	14.3	0.757	"	15.1		94.3	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	14.0	0.765	"	15.3		91.7	50-150				
Perfluoro-n-butanoic acid (PFBA)	14.7	0.797	"	15.9		92.2	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.40	0.355	"	7.09		90.2	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.67	0.398	"	7.97		109	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	8.05	0.398	"	7.97		101	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	7.22	0.398	"	7.97		90.6	50-150				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30615 - EPA 1633 Prep											
LCS (BL30615-BS1)								Prepared: 12/09/2023 Analyzed: 12/11/2023			
Perfluoro-1-pentanesulfonate (PFPeS)	3.94	0.187	ug/kg wet	3.75		105	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.6	0.747	"	14.9		97.6	50-150				
HFPO-DA (Gen-X)	8.13	0.797	"	7.97		102	50-150				
11CL-PF3OUdS	3.57	0.753	"	7.53		47.4	50-150	Low Bias			
9CL-PF3ONS	4.72	0.745	"	7.45		63.4	50-150				
ADONA	5.94	0.753	"	7.53		78.8	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.56	0.193	"	3.86		66.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.16	0.191	"	3.82		109	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	16.1	0.996	"	15.9		101	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	60.6	4.98	"	79.7		76.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	49.4	4.98	"	79.7		62.0	50-150				
N-MeFOSE	40.5	1.99	"	39.8		102	50-150				
N-MeFOSA	3.49	0.199	"	3.98		87.6	50-150				
N-EtFOSE	38.6	1.99	"	39.8		96.9	50-150				
N-EtFOSA	6.52	0.199	"	3.98		164	50-150	High Bias			
Surrogate: M3PFBS	*1.90*		"	*1.93*		*98.3*	*25-150*				
Surrogate: M5PFHxA	*1.80*		"	*2.08*		*86.6*	*25-150*				
Surrogate: M4PFHpA	*1.55*		"	*2.08*		*74.6*	*25-150*				
Surrogate: M3PFHxS	*1.36*		"	*1.97*		*69.4*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.26*		"	*2.08*		*60.9*	*25-150*				
Surrogate: M6PFDA	*0.578*		"	*1.04*		*55.8*	*25-150*				
Surrogate: M7PFUdA	*0.548*		"	*1.04*		*52.9*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.507*		"	*1.04*		*48.9*	*25-150*				
Surrogate: M2PFTeDA	*0.462*		"	*1.04*		*44.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.85*		"	*8.32*		*118*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.06*		"	*1.99*		*53.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.20*		"	*4.15*		*101*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*0.925*		"	*2.08*		*44.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.80*		"	*4.15*		*43.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.73*		"	*4.15*		*41.8*	*25-150*				
Surrogate: M2-6:2 FTS	*2.52*		"	*3.94*		*64.0*	*25-200*				
Surrogate: M2-8:2 FTS	*2.29*		"	*3.98*		*57.5*	*25-200*				
Surrogate: M9PFNA	*0.00*		"	*1.04*			*25-150*				
Surrogate: M2-4:2 FTS	*3.37*		"	*3.89*		*86.5*	*25-150*				
Surrogate: d-N-MeFOSA	*0.970*		"	*2.08*		*46.7*	*25-150*				
Surrogate: d-N-EtFOSA	*0.795*		"	*2.08*		*38.3*	*25-150*				
Surrogate: M3HFPO-DA	*7.79*		"	*8.32*		*93.7*	*25-150*				
Surrogate: d9-N-EtFOSE	*5.87*		"	*20.8*		*28.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*7.20*		"	*20.8*		*34.7*	*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 BL30615 - EPA 1633 Prep											
LCS (BL30615-BS2)								Prepared: 12/09/2023 Analyzed: 12/11/2023			
Perfluorobutanesulfonic acid (PFBS)	0.751	0.174	ug/kg wet	0.695		108	50-150				
Perfluorohexanoic acid (PFHxA)	0.771	0.196	"	0.786		98.1	50-150				
Perfluoroheptanoic acid (PFHpA)	0.813	0.196	"	0.786		103	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.837	0.180	"	0.719		116	50-150				
Perfluorooctanoic acid (PFOA)	0.738	0.196	"	0.786		93.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.925	0.183	"	0.731		127	50-150				
Perfluorononanoic acid (PFNA)	0.848	0.196	"	0.786		108	50-150				
Perfluorodecanoic acid (PFDA)	0.697	0.196	"	0.786		88.7	50-150				
Perfluoroundecanoic acid (PFUnA)	0.825	0.196	"	0.786		105	50-150				
Perfluorododecanoic acid (PFDoA)	0.701	0.196	"	0.786		89.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.872	0.196	"	0.786		111	50-150				
Perfluorotetradecanoic acid (PFTA)	0.818	0.196	"	0.786		104	50-150				
N-MeFOSAA	0.738	0.196	"	0.786		93.9	50-150				
N-EtFOSAA	0.701	0.196	"	0.786		89.3	50-150				
Perfluoropentanoic acid (PFPeA)	1.62	0.393	"	1.57		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	1.10	0.196	"	0.786		140	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.989	0.196	"	0.750		132	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.749	0.190	"	0.758		98.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.48	0.747	"	2.99		117	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.12	0.754	"	3.02		103	50-150				
Perfluoro-n-butanoic acid (PFBA)	3.25	0.786	"	3.14		103	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.54	0.350	"	1.40		110	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.37	0.393	"	1.57		87.2	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.76	0.393	"	1.57		112	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	1.67	0.393	"	1.57		106	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	1.01	0.185	"	0.739		136	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	3.27	0.737	"	2.95		111	50-150				
HFPO-DA (Gen-X)	1.98	0.786	"	1.57		126	50-150				
11CL-PF3OUdS	0.713	0.743	"	1.49		48.0	50-150	Low Bias			
9CL-PF3ONS	0.945	0.735	"	1.47		64.3	50-150				
ADONA	1.33	0.743	"	1.49		89.5	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.695	0.191	"	0.762		91.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.902	0.189	"	0.754		120	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	2.94	0.982	"	3.14		93.6	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	14.3	4.91	"	15.7		90.8	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	10.4	4.91	"	15.7		66.1	50-150				
N-MeFOSE	8.35	1.96	"	7.86		106	50-150				
N-MeFOSA	0.792	0.196	"	0.786		101	50-150				
N-EtFOSE	9.15	1.96	"	7.86		116	50-150				
N-EtFOSA	1.51	0.196	"	0.786		192	50-150	High Bias			
Surrogate: M3PFBS	*2.01*		"	*1.91*		*105*	*25-150*				
Surrogate: M5PFHxA	*1.96*		"	*2.05*		*95.9*	*25-150*				
Surrogate: M4PFHpA	*1.73*		"	*2.05*		*84.6*	*25-150*				
Surrogate: M3PFHxS	*1.33*		"	*1.94*		*68.7*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.57*		"	*2.05*		*76.8*	*25-150*				
Surrogate: M6PFDA	*0.657*		"	*1.02*		*64.3*	*25-150*				
Surrogate: M7PFUdA	*0.561*		"	*1.02*		*54.9*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30615 - EPA 1633 Prep											
LCS (BL30615-BS2)											Prepared: 12/09/2023 Analyzed: 12/11/2023
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.526*		*ug/kg wet*	*1.02*		*51.5*	*25-150*				
Surrogate: M2PFTeDA	*0.461*		*"*	*1.02*		*45.1*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.95*		*"*	*8.20*		*121*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.03*		*"*	*1.96*		*52.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.48*		*"*	*4.09*		*110*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*0.932*		*"*	*2.05*		*45.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.90*		*"*	*4.09*		*46.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.92*		*"*	*4.09*		*46.9*	*25-150*				
Surrogate: M2-6:2 FTS	*2.40*		*"*	*3.89*		*61.7*	*25-200*				
Surrogate: M2-8:2 FTS	*2.11*		*"*	*3.93*		*53.7*	*25-200*				
Surrogate: M9PFNA	*0.00*		*"*	*1.02*			*25-150*				
Surrogate: M2-4:2 FTS	*3.53*		*"*	*3.84*		*92.0*	*25-150*				
Surrogate: d-N-MeFOSA	*0.999*		*"*	*2.05*		*48.8*	*25-150*				
Surrogate: d-N-EtFOSA	*0.668*		*"*	*2.05*		*32.6*	*25-150*				
Surrogate: M3HFPO-DA	*8.96*		*"*	*8.20*		*109*	*25-150*				
Surrogate: d9-N-EtFOSE	*5.03*		*"*	*20.5*		*24.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*6.28*		*"*	*20.5*		*30.7*	*25-150*				
Matrix Spike (BL30615-MS1)	*Source sample: 23L0173-02 (Matrix Spike)										Prepared: 12/09/2023 Analyzed: 12/11/2023
Perfluorobutanesulfonic acid (PFBS)	4.11	0.202	ug/kg dry	4.03	ND	102	25-150				
Perfluorohexanoic acid (PFHxA)	4.24	0.228	"	4.56	ND	93.1	25-150				
Perfluoroheptanoic acid (PFHpA)	4.39	0.228	"	4.56	ND	96.3	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.05	0.208	"	4.17	ND	97.1	25-150				
Perfluorooctanoic acid (PFOA)	4.24	0.228	"	4.56	ND	93.0	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.74	0.212	"	4.24	ND	112	25-150				
Perfluorononanoic acid (PFNA)	4.58	0.228	"	4.56	ND	101	25-150				
Perfluorodecanoic acid (PFDA)	4.49	0.228	"	4.56	ND	98.6	25-150				
Perfluoroundecanoic acid (PFUnA)	4.61	0.228	"	4.56	ND	101	25-150				
Perfluorododecanoic acid (PFDoA)	4.33	0.228	"	4.56	ND	94.9	25-150				
Perfluorotridecanoic acid (PFTrDA)	5.08	0.228	"	4.56	ND	112	25-150				
Perfluorotetradecanoic acid (PFTA)	4.42	0.228	"	4.56	ND	97.0	25-150				
N-MeFOSAA	4.59	0.228	"	4.56	ND	101	25-150				
N-EtFOSAA	4.62	0.228	"	4.56	ND	101	25-150				
Perfluoropentanoic acid (PFPeA)	8.80	0.456	"	9.11	ND	96.6	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.36	0.228	"	4.56	0.446	108	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.60	0.228	"	4.35	ND	106	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.39	0.220	"	4.40	ND	99.8	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	17.0	0.866	"	17.3	ND	98.2	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	17.1	0.875	"	17.5	ND	97.8	25-150				
Perfluoro-n-butanoic acid (PFBA)	18.1	0.911	"	18.2	ND	99.6	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.28	0.406	"	8.11	ND	102	25-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.33	0.456	"	9.11	ND	91.4	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	8.97	0.456	"	9.11	ND	98.4	25-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	9.26	0.456	"	9.11	ND	102	25-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.39	0.214	"	4.28	ND	103	25-150				

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

York Analytical Laboratories, Inc. - Stratford

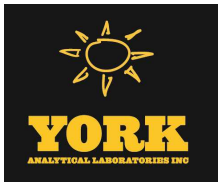
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30615 - EPA 1633 Prep											
Matrix Spike (BL30615-MS1)	*Source sample: 23L0173-02 (Matrix Spike)							Prepared: 12/09/2023 Analyzed: 12/11/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	17.7	0.854	ug/kg dry	17.1	ND	104	25-150				
HFPO-DA (Gen-X)	9.87	0.911	"	9.11	ND	108	25-150				
11CL-PF3OUdS	7.80	0.861	"	8.61	ND	90.6	25-150				
9CL-PF3ONS	9.74	0.852	"	8.52	ND	114	25-150				
ADONA	8.49	0.861	"	8.61	ND	98.6	25-150				
Perfluorododecanesulfonic acid (PFDoS)	3.55	0.221	"	4.42	ND	80.4	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	5.33	0.219	"	4.37	ND	122	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	15.6	1.14	"	18.2	ND	85.6	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	84.0	5.70	"	91.1	ND	92.2	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	79.7	5.70	"	91.1	ND	87.5	25-150				
N-MeFOSE	46.4	2.28	"	45.6	ND	102	25-150				
N-MeFOSA	4.91	0.228	"	4.56	ND	108	25-150				
N-EtFOSE	45.7	2.28	"	45.6	ND	100	25-150				
N-EtFOSA	3.66	0.228	"	4.56	ND	80.3	25-150				
Surrogate: M3PFBS	*3.05*		"	*2.21*		*138*	*25-150*				
Surrogate: M5PFHxA	*3.03*		"	*2.38*		*128*	*25-150*				
Surrogate: M4PFHpA	*3.00*		"	*2.38*		*126*	*25-150*				
Surrogate: M3PFHxS	*3.02*		"	*2.25*		*134*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.94*		"	*2.38*		*124*	*25-150*				
Surrogate: M6PFDA	*1.44*		"	*1.18*		*122*	*25-150*				
Surrogate: M7PFUdA	*1.49*		"	*1.18*		*126*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.39*		"	*1.18*		*117*	*25-150*				
Surrogate: M2PFTeDA	*1.02*		"	*1.18*		*85.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*11.8*		"	*9.51*		*124*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.86*		"	*2.27*		*126*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.08*		"	*4.74*		*128*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.47*		"	*2.38*		*104*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.23*		"	*4.74*		*110*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.65*		"	*4.74*		*119*	*25-150*				
Surrogate: M2-6:2 FTS	*5.57*		"	*4.51*		*124*	*25-200*				
Surrogate: M2-8:2 FTS	*5.83*		"	*4.56*		*128*	*25-200*				
Surrogate: M9PFNA	*0.00*		"	*1.18*			*25-150*				
Surrogate: M2-4:2 FTS	*5.64*		"	*4.45*		*127*	*25-150*				
Surrogate: d-N-MeFOSA	*1.75*		"	*2.38*		*73.6*	*25-150*				
Surrogate: d-N-EtFOSA	*1.73*		"	*2.38*		*72.7*	*25-150*				
Surrogate: M3HFPO-DA	*13.3*		"	*9.51*		*140*	*25-150*				
Surrogate: d9-N-EtFOSE	*14.7*		"	*23.8*		*62.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*16.7*		"	*23.8*		*70.3*	*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 BL30615 - EPA 1633 Prep											
Matrix Spike Dup (BL30615-MSD1)	*Source sample: 23L0173-02 (Matrix Spike Dup)								Prepared: 12/09/2023 Analyzed: 12/11/2023		
Perfluorobutanesulfonic acid (PFBS)	4.03	0.204	ug/kg dry	4.09	ND	98.5	25-150		2.04	35	
Perfluorohexanoic acid (PFHxA)	4.23	0.231	"	4.62	ND	91.5	25-150		0.334	35	
Perfluoroheptanoic acid (PFHpA)	4.31	0.231	"	4.62	ND	93.2	25-150		1.83	35	
Perfluorohexanesulfonic acid (PFHxS)	3.85	0.211	"	4.23	ND	91.1	25-150		5.00	35	
Perfluorooctanoic acid (PFOA)	4.38	0.231	"	4.62	ND	94.8	25-150		3.27	35	
Perfluorooctanesulfonic acid (PFOS)	5.01	0.215	"	4.30	ND	117	25-150		5.65	35	
Perfluorononanoic acid (PFNA)	4.31	0.231	"	4.62	ND	93.3	25-150		6.18	35	
Perfluorodecanoic acid (PFDA)	4.35	0.231	"	4.62	ND	94.2	25-150		3.14	35	
Perfluoroundecanoic acid (PFUnA)	4.84	0.231	"	4.62	ND	105	25-150		4.81	35	
Perfluorododecanoic acid (PFDoA)	4.32	0.231	"	4.62	ND	93.6	25-150		0.0322	35	
Perfluorotridecanoic acid (PFTrDA)	5.01	0.231	"	4.62	ND	108	25-150		1.49	35	
Perfluorotetradecanoic acid (PFTA)	4.06	0.231	"	4.62	ND	87.9	25-150		8.48	35	
N-MeFOSAA	4.53	0.231	"	4.62	ND	97.9	25-150		1.32	35	
N-EtFOSAA	4.26	0.231	"	4.62	ND	92.2	25-150		7.99	35	
Perfluoropentanoic acid (PFPeA)	8.52	0.462	"	9.24	ND	92.2	25-150		3.21	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.53	0.231	"	4.62	0.446	110	25-150		3.21	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.00	0.231	"	4.41	ND	113	25-150		8.30	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.78	0.223	"	4.46	ND	107	25-150		8.64	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	16.2	0.878	"	17.6	ND	92.3	25-150		4.85	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.5	0.887	"	17.7	ND	92.8	25-150		3.88	35	
Perfluoro-n-butanoic acid (PFBA)	17.6	0.924	"	18.5	ND	95.4	25-150		2.85	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.22	0.411	"	8.22	ND	99.9	25-150		0.791	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	9.02	0.462	"	9.24	ND	97.6	25-150		8.00	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	8.75	0.462	"	9.24	ND	94.7	25-150		2.41	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	8.83	0.462	"	9.24	ND	95.5	25-150		4.74	30	
Perfluoro-1-pentanesulfonate (PFPeS)	4.13	0.217	"	4.34	ND	95.1	25-150		6.19	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	16.9	0.866	"	17.3	ND	97.3	25-150		5.14	30	
HFPO-DA (Gen-X)	9.23	0.924	"	9.24	ND	99.9	25-150		6.71	30	
11CL-PF3OUdS	7.83	0.873	"	8.73	ND	89.6	25-150		0.297	30	
9CL-PF3ONS	9.47	0.864	"	8.64	ND	110	25-150		2.79	30	
ADONA	8.54	0.873	"	8.73	ND	97.8	25-150		0.621	30	
Perfluorododecanesulfonic acid (PFDoS)	3.90	0.224	"	4.48	ND	87.0	25-150		9.26	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	5.90	0.222	"	4.44	ND	133	25-150		10.0	30	
3-Perfluoropropyl propanoic acid (FPrPA)	16.5	1.16	"	18.5	ND	89.0	25-150		5.27	30	
3-Perfluoropentyl propanoic acid (FPePA)	89.7	5.78	"	92.4	ND	97.1	25-150		6.59	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	82.0	5.78	"	92.4	ND	88.8	25-150		2.85	30	
N-MeFOSE	44.9	2.31	"	46.2	ND	97.2	25-150		3.34	30	
N-MeFOSA	4.95	0.231	"	4.62	ND	107	25-150		0.858	30	
N-EtFOSE	46.5	2.31	"	46.2	ND	101	25-150		1.74	30	
N-EtFOSA	7.36	0.231	"	4.62	ND	159	25-150	High Bias	67.1	30	Non-dir.
Surrogate: M3PFBS	*3.16*		"	*2.24*		*141*	*25-150*				
Surrogate: M5PFHxA	*3.00*		"	*2.41*		*125*	*25-150*				
Surrogate: M4PFHpA	*3.02*		"	*2.41*		*125*	*25-150*				
Surrogate: M3PFHxS	*3.11*		"	*2.28*		*136*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.11*		"	*2.41*		*129*	*25-150*				
Surrogate: M6PFDA	*1.54*		"	*1.20*		*128*	*25-150*				
Surrogate: M7PFUdA	*1.38*		"	*1.20*		*115*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30615 - EPA 1633 Prep											
Matrix Spike Dup (BL30615-MSD1)	*Source sample: 23L0173-02 (Matrix Spike Dup)								Prepared: 12/09/2023 Analyzed: 12/11/2023		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.22*		*ug/kg dry*	*1.20*		*101*	*25-150*				
Surrogate: M2PFTeDA	*1.02*		*"*	*1.20*		*85.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*12.2*		*"*	*9.65*		*127*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.69*		*"*	*2.30*		*117*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.11*		*"*	*4.81*		*127*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.70*		*"*	*2.41*		*112*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.43*		*"*	*4.81*		*113*	*25-150*				
Surrogate: d5-N-EtFOSAA	*6.03*		*"*	*4.81*		*125*	*25-150*				
Surrogate: M2-6:2 FTS	*5.53*		*"*	*4.57*		*121*	*25-200*				
Surrogate: M2-8:2 FTS	*6.18*		*"*	*4.62*		*134*	*25-200*				
Surrogate: M9PFNA	*0.00*		*"*	*1.20*			*25-150*				
Surrogate: M2-4:2 FTS	*5.96*		*"*	*4.52*		*132*	*25-150*				
Surrogate: d-N-MeFOSA	*1.94*		*"*	*2.41*		*80.5*	*25-150*				
Surrogate: d-N-EtFOSA	*1.59*		*"*	*2.41*		*66.0*	*25-150*				
Surrogate: M3HFPO-DA	*13.0*		*"*	*9.65*		*135*	*25-150*				
Surrogate: d9-N-EtFOSE	*16.3*		*"*	*24.1*		*67.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*19.3*		*"*	*24.1*		*80.1*	*25-150*				
Batch BL30619 - EPA 1633 Prep											
Blank (BL30619-BLK1)									Prepared: 12/10/2023 Analyzed: 12/12/2023		
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	"								



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 BL30619 - EPA 1633 Prep											
Blank (BL30619-BLK1)											Prepared: 12/10/2023 Analyzed: 12/12/2023
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	ng/L								
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	*49.1*		"	*38.8*		*127*	*25-150*				
Surrogate: M5PFHxA	*52.2*		"	*41.7*		*125*	*25-150*				
Surrogate: M4PFHpA	*66.9*		"	*41.7*		*160*	*25-150*				
Surrogate: M3PFHxS	*55.4*		"	*39.5*		*140*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*54.1*		"	*41.7*		*130*	*25-150*				
Surrogate: M6PFDA	*29.5*		"	*20.8*		*142*	*25-150*				
Surrogate: M7PFUdA	*31.0*		"	*20.8*		*149*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*22.5*		"	*20.8*		*108*	*25-150*				
Surrogate: M2PFTeDA	*19.7*		"	*20.8*		*94.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.10*		"	*167*		*1.26*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*56.3*		"	*39.9*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*41.1*		"	*83.3*		*49.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*53.2*		"	*41.7*		*128*	*10-150*				
Surrogate: d3-N-MeFOSAA	*94.8*		"	*83.3*		*114*	*25-150*				
Surrogate: d5-N-EtFOSAA	*102*		"	*83.3*		*123*	*25-150*				
Surrogate: M2-6:2 FTS	*73.1*		"	*79.2*		*92.3*	*25-200*				
Surrogate: M2-8:2 FTS	*75.3*		"	*80.0*		*94.1*	*25-200*				
Surrogate: M9PFNA	*29.3*		"	*20.8*		*141*	*25-150*				
Surrogate: M2-4:2 FTS	*79.3*		"	*78.2*		*101*	*25-150*				
Surrogate: d-N-MeFOSA	*42.6*		"	*41.7*		*102*	*25-150*				
Surrogate: d-N-EtFOSA	*46.8*		"	*41.7*		*112*	*25-150*				
Surrogate: M3HFPO-DA	*213*		"	*167*		*128*	*25-150*				
Surrogate: d9-N-EtFOSE	*279*		"	*417*		*67.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*342*		"	*417*		*82.0*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30619 - EPA 1633 Prep											
LCS (BL30619-BS1)								Prepared: 12/10/2023 Analyzed: 12/12/2023			
Perfluorobutanesulfonic acid (PFBS)	73.9	3.54	ng/L	70.8		104	50-150				
Perfluorohexanoic acid (PFHxA)	78.4	4.00	"	80.0		98.1	50-150				
Perfluoroheptanoic acid (PFHpA)	76.1	4.00	"	80.0		95.2	50-150				
Perfluorohexanesulfonic acid (PFHxS)	73.4	3.66	"	73.2		100	50-150				
Perfluorooctanoic acid (PFOA)	76.5	4.00	"	80.0		95.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	91.4	3.72	"	74.4		123	50-150				
Perfluorononanoic acid (PFNA)	86.5	4.00	"	80.0		108	50-150				
Perfluorodecanoic acid (PFDA)	84.2	4.00	"	80.0		105	50-150				
Perfluoroundecanoic acid (PFUnA)	82.1	4.00	"	80.0		103	50-150				
Perfluorododecanoic acid (PFDoA)	89.0	4.00	"	80.0		111	50-150				
Perfluorotridecanoic acid (PFTrDA)	105	4.00	"	80.0		131	50-150				
Perfluorotetradecanoic acid (PFTA)	77.8	4.00	"	80.0		97.3	50-150				
N-MeFOSAA	79.5	4.00	"	80.0		99.4	50-150				
N-EtFOSAA	76.8	4.00	"	80.0		96.1	50-150				
Perfluoropentanoic acid (PFPeA)	165	8.00	"	160		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	80.8	4.00	"	80.0		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	95.6	3.82	"	76.4		125	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	84.8	3.86	"	77.2		110	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	317	15.2	"	304		104	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	342	15.4	"	307		111	50-150				
Perfluoro-n-butanoic acid (PFBA)	160	16.0	"	320		50.1	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	156	7.12	"	142		110	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	156	8.00	"	160		97.4	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	7.74	8.00	"	160		4.84	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	325	8.00	"	160		203	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	80.9	3.76	"	75.2		108	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	316	15.0	"	300		105	50-150				
HFPO-DA (Gen-X)	198	16.0	"	160		124	50-150				
11CL-PF3OUdS	144	15.1	"	151		95.2	50-150				
9CL-PF3ONS	170	15.0	"	150		113	50-150				
ADONA	191	15.1	"	151		126	50-150				
Perfluorododecanesulfonic acid (PFDoS)	43.6	3.88	"	77.6		56.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	101	3.84	"	76.8		132	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	216	10.0	"	320		67.6	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	1720	50.0	"	1600		107	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1740	50.0	"	1600		109	50-150				
N-MeFOSE	859	40.0	"	800		107	50-150				
N-MeFOSA	96.1	4.00	"	80.0		120	50-150				
N-EtFOSE	715	40.0	"	800		89.4	50-150				
N-EtFOSA	131	4.00	"	80.0		164	50-150	High Bias			
Surrogate: M3PFBS	*50.6*		*"*	*38.8*		*131*	*25-150*				
Surrogate: M5PFHxA	*48.3*		*"*	*41.7*		*116*	*25-150*				
Surrogate: M4PFHpA	*54.2*		*"*	*41.7*		*130*	*25-150*				
Surrogate: M3PFHxS	*54.9*		*"*	*39.5*		*139*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.2*		*"*	*41.7*		*135*	*25-150*				
Surrogate: M6PFDA	*27.6*		*"*	*20.8*		*133*	*25-150*				
Surrogate: M7PFUdA	*26.5*		*"*	*20.8*		*127*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30619 - EPA 1633 Prep											
LCS (BL30619-BS1)								Prepared: 12/10/2023 Analyzed: 12/12/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*23.5*		*ng/L*	*20.8*		*113*	*25-150*				
Surrogate: M2PFTeDA	*16.5*		*"*	*20.8*		*79.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.81*		*"*	*167*		*1.09*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*53.6*		*"*	*39.9*		*134*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*31.7*		*"*	*83.3*		*38.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*56.4*		*"*	*41.7*		*135*	*10-150*				
Surrogate: d3-N-MeFOSAA	*93.8*		*"*	*83.3*		*113*	*25-150*				
Surrogate: d5-N-EtFOSAA	*99.7*		*"*	*83.3*		*120*	*25-150*				
Surrogate: M2-6:2 FTS	*92.3*		*"*	*79.2*		*117*	*25-200*				
Surrogate: M2-8:2 FTS	*86.2*		*"*	*80.0*		*108*	*25-200*				
Surrogate: M9PFNA	*26.5*		*"*	*20.8*		*127*	*25-150*				
Surrogate: M2-4:2 FTS	*97.1*		*"*	*78.2*		*124*	*25-150*				
Surrogate: d-N-MeFOSA	*42.8*		*"*	*41.7*		*103*	*25-150*				
Surrogate: d-N-EtFOSA	*35.8*		*"*	*41.7*		*85.8*	*25-150*				
Surrogate: M3HFPO-DA	*204*		*"*	*167*		*122*	*25-150*				
Surrogate: d9-N-EtFOSE	*278*		*"*	*417*		*66.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*275*		*"*	*417*		*65.8*	*25-150*				
LCS (BL30619-BS2)								Prepared: 12/10/2023 Analyzed: 12/12/2023			
Perfluorobutanesulfonic acid (PFBS)	16.5	3.54	ng/L	14.2		117	50-150				
Perfluorohexanoic acid (PFHxA)	15.8	4.00	"	16.0		98.8	50-150				
Perfluoroheptanoic acid (PFHpA)	15.1	4.00	"	16.0		94.4	50-150				
Perfluorohexanesulfonic acid (PFHxS)	15.9	3.66	"	14.6		109	50-150				
Perfluorooctanoic acid (PFOA)	15.8	4.00	"	16.0		98.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	17.3	3.72	"	14.9		116	50-150				
Perfluorononanoic acid (PFNA)	19.5	4.00	"	16.0		122	50-150				
Perfluorodecanoic acid (PFDA)	17.6	4.00	"	16.0		110	50-150				
Perfluoroundecanoic acid (PFUnA)	16.8	4.00	"	16.0		105	50-150				
Perfluorododecanoic acid (PFDoA)	17.8	4.00	"	16.0		111	50-150				
Perfluorotridecanoic acid (PFTrDA)	24.2	4.00	"	16.0		151	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	17.3	4.00	"	16.0		108	50-150				
N-MeFOSAA	13.7	4.00	"	16.0		85.6	50-150				
N-EtFOSAA	16.2	4.00	"	16.0		102	50-150				
Perfluoropentanoic acid (PFPeA)	33.6	8.00	"	32.0		105	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	17.2	4.00	"	16.0		108	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	18.3	3.82	"	15.3		120	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	17.4	3.86	"	15.4		113	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	63.6	15.2	"	60.8		105	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	71.1	15.4	"	61.4		116	50-150				
Perfluoro-n-butanoic acid (PFBA)	39.7	16.0	"	64.0		62.1	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	33.0	7.12	"	28.5		116	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	34.4	8.00	"	32.0		108	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.75	8.00	"	32.0		5.48	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	57.4	8.00	"	32.0		179	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	16.4	3.76	"	15.0		109	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 BL30619 - EPA 1633 Prep											
LCS (BL30619-BS2)								Prepared: 12/10/2023 Analyzed: 12/12/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	69.5	15.0	ng/L	60.0		116	50-150				
HFPO-DA (Gen-X)	35.2	16.0	"	32.0		110	50-150				
11CL-PF3OUdS	26.4	15.1	"	30.2		87.5	50-150				
9CL-PF3ONS	35.2	15.0	"	29.9		118	50-150				
ADONA	38.2	15.1	"	30.2		126	50-150				
Perfluorododecanesulfonic acid (PFDoS)	8.14	3.88	"	15.5		52.4	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	19.9	3.84	"	15.4		130	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	44.9	10.0	"	64.0		70.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	331	50.0	"	320		103	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	345	50.0	"	320		108	50-150				
N-MeFOSE	171	40.0	"	160		107	50-150				
N-MeFOSA	17.5	4.00	"	16.0		109	50-150				
N-EtFOSE	166	40.0	"	160		103	50-150				
N-EtFOSA	26.3	4.00	"	16.0		165	50-150	High Bias			
Surrogate: M3PFBS	*54.2*		"	*38.8*		*140*	*25-150*				
Surrogate: M5PFHxA	*55.4*		"	*41.7*		*133*	*25-150*				
Surrogate: M4PFHpA	*60.6*		"	*41.7*		*145*	*25-150*				
Surrogate: M3PFHxS	*58.6*		"	*39.5*		*148*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*55.3*		"	*41.7*		*133*	*25-150*				
Surrogate: M6PFDA	*26.7*		"	*20.8*		*128*	*25-150*				
Surrogate: M7PFUdA	*25.8*		"	*20.8*		*124*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*23.2*		"	*20.8*		*112*	*25-150*				
Surrogate: M2PFTeDA	*14.4*		"	*20.8*		*69.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.19*		"	*167*		*1.31*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*55.6*		"	*39.9*		*139*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*50.3*		"	*83.3*		*60.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.4*		"	*41.7*		*121*	*10-150*				
Surrogate: d3-N-MeFOSAA	*84.5*		"	*83.3*		*101*	*25-150*				
Surrogate: d5-N-EtFOSAA	*86.4*		"	*83.3*		*104*	*25-150*				
Surrogate: M2-6:2 FTS	*92.2*		"	*79.2*		*116*	*25-200*				
Surrogate: M2-8:2 FTS	*86.3*		"	*80.0*		*108*	*25-200*				
Surrogate: M9PFNA	*26.7*		"	*20.8*		*128*	*25-150*				
Surrogate: M2-4:2 FTS	*98.3*		"	*78.2*		*126*	*25-150*				
Surrogate: d-N-MeFOSA	*40.5*		"	*41.7*		*97.2*	*25-150*				
Surrogate: d-N-EtFOSA	*40.1*		"	*41.7*		*96.1*	*25-150*				
Surrogate: M3HFPO-DA	*232*		"	*167*		*139*	*25-150*				
Surrogate: d9-N-EtFOSE	*219*		"	*417*		*52.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*274*		"	*417*		*65.8*	*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 BL30619 - EPA 1633 Prep											
Duplicate (BL30619-DUP1)	*Source sample: 23L0157-06 (Duplicate)								Prepared: 12/10/2023 Analyzed: 12/12/2023		
Perfluorobutanesulfonic acid (PFBS)	1.09	1.59	ng/L		1.48				30.3	30	Non-dir.
Perfluorohexanoic acid (PFHxA)	6.80	1.80	"		5.78				16.3	30	
Perfluoroheptanoic acid (PFHpA)	2.84	1.80	"		3.72				26.9	30	
Perfluorohexanesulfonic acid (PFHxS)	0.840	1.64	"		1.21				36.0	30	Non-dir.
Perfluorooctanoic acid (PFOA)	4.77	1.80	"		6.08				24.1	30	
Perfluorooctanesulfonic acid (PFOS)	5.71	1.67	"		4.65				20.5	30	
Perfluorononanoic acid (PFNA)	0.969	1.80	"		0.884				9.13	30	
Perfluorodecanoic acid (PFDA)	ND	1.80	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	1.80	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	1.80	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	1.80	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	1.80	"		ND					30	
N-MeFOSAA	ND	1.80	"		ND					30	
N-EtFOSAA	ND	1.80	"		ND					30	
Perfluoropentanoic acid (PFPeA)	10.4	3.59	"		12.5				17.8	30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.80	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.72	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.73	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	6.83	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	6.90	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	4.71	7.19	"		7.40				44.4	30	Non-dir.
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.20	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.59	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.59	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	0.515	3.59	"		0.372				32.4	30	Non-dir.
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.69	"		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	6.74	"		ND					30	
HFPO-DA (Gen-X)	15.1	7.19	"		4.43				109	30	Non-dir.
11CL-PF3OUdS	ND	6.79	"		ND					30	
9CL-PF3ONS	ND	6.72	"		ND					30	
ADONA	0.539	6.79	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.74	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.73	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	4.49	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	22.5	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	22.5	"		ND					30	
N-MeFOSE	ND	18.0	"		ND					30	
N-MeFOSA	ND	1.80	"		ND					30	
N-EtFOSE	ND	18.0	"		ND					30	
N-EtFOSA	ND	1.80	"		ND					30	
Surrogate: M3PFBS	*1.80*		"	*17.4*		*10.3*	*25-150*				
Surrogate: M5PFHxA	*2.47*		"	*18.7*		*13.2*	*25-150*				
Surrogate: M4PFHpA	*6.31*		"	*18.7*		*33.6*	*25-150*				
Surrogate: M3PFHxS	*8.18*		"	*17.7*		*46.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*8.42*		"	*18.7*		*44.9*	*25-150*				
Surrogate: M6PFDA	*4.47*		"	*9.35*		*47.9*	*25-150*				
Surrogate: M7PFUdA	*5.62*		"	*9.35*		*60.2*	*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 BL30619 - EPA 1633 Prep											
Duplicate (BL30619-DUP1)	*Source sample: 23L0157-06 (Duplicate)							Prepared: 12/10/2023 Analyzed: 12/12/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*5.45*		*ng/L*	*9.35*		*58.3*	*25-150*				
Surrogate: M2PFTeDA	*4.90*		*"*	*9.35*		*52.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.11*		*"*	*75.0*		*1.48*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*10.9*		*"*	*17.9*		*60.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.774*		*"*	*37.4*		*2.07*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*10.9*		*"*	*18.7*		*57.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*25.9*		*"*	*37.4*		*69.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*31.6*		*"*	*37.4*		*84.4*	*25-150*				
Surrogate: M2-6:2 FTS	*14.1*		*"*	*35.6*		*39.6*	*25-200*				
Surrogate: M2-8:2 FTS	*16.9*		*"*	*35.9*		*46.9*	*25-200*				
Surrogate: M9PFNA	*5.33*		*"*	*9.35*		*57.0*	*25-150*				
Surrogate: M2-4:2 FTS	*7.18*		*"*	*35.1*		*20.4*	*25-150*				
Surrogate: d-N-MeFOSA	*13.8*		*"*	*18.7*		*73.8*	*25-150*				
Surrogate: d-N-EtFOSA	*15.8*		*"*	*18.7*		*84.4*	*25-150*				
Surrogate: M3HFPO-DA	*9.06*		*"*	*75.0*		*12.1*	*25-150*				
Surrogate: d9-N-EtFOSE	*121*		*"*	*187*		*64.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*132*		*"*	*187*		*70.7*	*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 BL30377 - % Solids Prep											
Duplicate (BL30377-DUP1)	*Source sample: 23L0283-03 (SP-03 comp)								Prepared & Analyzed: 12/07/2023		
% Solids	90.6	0.100	%		91.2				0.661	20	

Sample and Data Qualifiers Relating to This Work Order

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.

York Analytical Laboratories, Inc.
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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23L0253

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Gallagher Bassett Technical Services	same	same	22003-0094	RUSH - Next Day ___
Address: 22 IBM Rd Suite 101 Poughkeepsie, NY	Address:	Address:	YOUR Project Name	RUSH - Two Day ___
Phone.: (845) 467-4721	Phone.:	Phone.:	22003-0094	RUSH - Three Day ___
Contact: Caroline Clark	Contact: Caroline Clark	Contact: Brenda Wells		RUSH - Four Day ___
E-mail: caroline_clark@gbtpa.com	E-mail:	E-mail: brenda_wells@gbtpa.com	YOUR PO#: 22003-0094	**Standard (5-7 Day)** X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Caroline Clark

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s):

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SP-01 comp	S	12/05/2023	PFAS 1633	1 x 250 mL
SP-02 comp				
SP-03 comp				
SP-04 comp				
SP-05 comp				
SP-06 comp				
SP-07 comp				
FB-20231205	DI			2 x 500mL

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/6/23	Chris Clayton	12-6-23 10:00	Chris Clayton	12-6-23 14:55
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				2	12/6/23 14:55 1.4 Degrees C

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C, 11th Floor
625 Broadway, Albany, New York 12233-7014
Phone: (518) 402-9662 • **Fax:** (518) 402-9679
Website: www.dec.ny.gov

Joe Martens
Commissioner

Via E-mail and Regular Mail

June 9, 2014

Mr. David Lloyds
Beacon Terminals Associates, LLP.
18 East 22nd Street
New York, NY 10021

Ref: Soil Importation and on-site Stockpiling Plan
Beacon Terminal, Site No: C314117
City of Beacon, Dutchess County

Dear Mr. Lloyds,

The New York State Department of Environmental Conservation (Department) has reviewed Soil Importation and on-site Stockpiling Plan dated June 9, 2014 prepared by Jansen Engineering, PLLC and is hereby approved.

Please contact me at (518) 402-9662 or pbamin@gw.dec.state.ny.us if you have any questions. Thank you.

Sincerely,

Parag Amin, P.E.
Project Manager
Remedial Bureau C

ecc : Y. Jansen, Jansen Engineering, PLLC
P. Ciminello, Ecosystems Strategies, Inc
S. Spitzer, Ecosystems Strategies, Inc
A. Perretta, NYSDOH
D. Crosby, DER